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(54) Title: 2' AND 3'-NUCLEOSIDE PRODRUGS FOR TREATING FLAVIVIRIDAE INFECTIONS

(57) Abstract: 2' and 3'-Prodrugs of 1', 2', 3' or 4'-branched ß-D or ß-L nucleosides, or their pharmaceutically acceptable salts and derivatives are described, which are useful in the prevention and treatment of *Flaviviridae* infections and other related conditions. These modified nucleosides provide superior results against flaviviruses and pestiviruses, including hepatitis C virus and viruses generally that replicate through an RNA dependent RNA reverse transcriptase. Compounds, compositions, methods and uses are provided for the treatment of *Flaviviridae* infection, including HCV infection, that include the administration of an effective amount of the prodrugs of the present invention, or their pharmaceutically acceptable salts or derivatives. These drugs may optionally be administered in combination or alteration with further anti-viral agents to prevent or treat *Flaviviridae* infections and other related conditions.

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2' AND 3'-NUCLEOSIDE PRODRUGS FOR TREATING *FLAVIVIRIDAE* INFECTIONS

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of priority to U.S. Provisional application No. 60/392,351, filed June 28, 2002; U.S. Provisional Application No. 60/466,194, filed April 28, 2003; and U.S. Provisional application 60/470,949, filed May 14, 2003, the disclosures of each of which are incorporated herein by reference.

FIELD OF THE INVENTION

This invention is in the area of pharmaceutical chemistry, and is in particular, a 2' and/or 3' prodrug of a 1', 2', 3' or 4'-branched nucleosides for the treatment of a *Flaviviridae* infection, such as a hepatitis C virus infection.

BACKGROUND OF THE INVENTION

Flaviviridae Viruses

The Flaviviridae family of viruses comprises at least three distinct genera: *pestiviruses*, which cause disease in cattle and pigs; *flaviviruses*, which are the primary cause of diseases such as dengue fever and yellow fever; and *hepaciviruses*, whose sole member is HCV. The flavivirus genus includes more than 68 members separated into groups on the basis of serological relatedness (Calisher et al., *J. Gen. Virol*, 1993, *70*, 37-43). Clinical symptoms vary and include fever, encephalitis and hemorrhagic fever (*Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, PA, 1996, Chapter 31, 931-959). Flaviviruses of global concern that are associated with human disease include the dengue hemorrhagic fever viruses (DHF), yellow fever virus, shock syndrome and Japanese encephalitis virus (Halstead, S. B., *Rev. Infect.*

Dis., 1984, *6*, 251-264; Halstead, S. B., *Science*, 239:476-481, 1988; Monath, T. P., *New Eng. J. Med.*, 1988, *319*, 641-643).

The pestivirus genus includes bovine viral diarrhea virus (BVDV), classical swine fever virus (CSFV, also called hog cholera virus) and border disease virus (BDV) of sheep (Moennig, V. et al. *Adv. Vir. Res.* 1992, *41*, 53-98). Pestivirus infections of domesticated livestock (cattle, pigs and sheep) cause significant economic losses worldwide. BVDV causes mucosal disease in cattle and is of significant economic importance to the livestock industry (Meyers, G. and Thiel, H.-J., *Advances in Virus Research*, 1996, *47*, 53-118; Moennig V., et al, *Adv. Vir. Res.* 1992, *41*, 53-98). Human pestiviruses have not been as extensively characterized as the animal pestiviruses. However, serological surveys indicate considerable pestivirus exposure in humans.

Pestiviruses and *hepaciviruses* are closely related virus groups within the Flaviviridae family. Other closely related viruses in this family include the GB virus A, GB virus A-like agents, GB virus-B and GB virus-C (also called hepatitis G virus, HGV). The hepacivirus group (hepatitis C virus; HCV) consists of a number of closely related but genotypically distinguishable viruses that infect humans. There are approximately 6 HCV genotypes and more than 50 subtypes. Due to the similarities between pestiviruses and hepaciviruses, combined with the poor ability of hepaciviruses to grow efficiently in cell culture, bovine viral diarrhea virus (BVDV) is often used as a surrogate to study the HCV virus.

The genetic organization of pestiviruses and hepaciviruses is very similar. These positive stranded RNA viruses possess a single large open reading frame (ORF) encoding all the viral proteins necessary for virus replication. These proteins are expressed as a polyprotein that is co- and post-translationally processed by both cellular and virus-encoded proteinases to yield the mature viral proteins. The viral proteins responsible for the replication of the viral genome RNA are located within approximately the carboxy-terminal. Two-thirds of the ORF are termed nonstructural (NS) proteins. The genetic organization and polyprotein processing of the nonstructural protein portion of the ORF for pestiviruses and hepaciviruses is very similar. For both the pestiviruses and hepaciviruses, the mature nonstructural (NS) proteins, in sequential order from the amino-terminus of the nonstructural protein coding region to the carboxy-terminus of the ORF, consist of p7, NS2, NS3, NS4A, NS4B, NS5A, and NS5B.

The NS proteins of pestiviruses and hepaciviruses share sequence domains that are characteristic of specific protein functions. For example, the NS3 proteins of viruses in both groups possess amino acid sequence motifs characteristic of serine proteinases and of

helicases (Gorbalenya et al. (1988) *Nature* 333:22; Bazan and Fletterick (1989) *Virology* 171:637-639; Gorbalenya et al. (1989) *Nucleic Acid Res.* 17.3889-3897). Similarly, the NS5B proteins of pestiviruses and hepaciviruses have the motifs characteristic of RNA-directed RNA polymerases (Koonin, E.V. and Dolja, V.V. (1993) *Crit. Rev. Biochem. Molec. Biol.* 28:375-430).

The actual roles and functions of the NS proteins of pestiviruses and hepaciviruses in the lifecycle of the viruses are directly analogous. In both cases, the NS3 serine proteinase is responsible for all proteolytic processing of polyprotein precursors downstream of its position in the ORF (Wiskerchen and Collett (1991) *Virology* 184:341-350; Bartenschlager et al. (1993) *J. Virol.* 67:3835-3844; Eckart et al. (1993) *Biochem. Biophys. Res. Comm.* 192:399-406; Grakoui et al. (1993) *J. Virol.* 67:2832-2843; Grakoui et al. (1993) *Proc. Natl. Acad. Sci.* USA 90:10583-10587; Hijikata et al. (1993) *J. Virol.* 67:4665-4675; Tome et al. (1993) *J. Virol.* 67:4017-4026). The NS4A protein, in both cases, acts as a cofactor with the NS3 serine protease (Bartenschlager et al. (1994) *J. Virol.* 68:5045-5055; Failla et al. (1994) *J. Virol.* 68: 3753-3760; Lin et al. (1994) 68:8147-8157; Xu et al. (1997) *J. Virol.* 71:5312-5322). The NS3 protein of both viruses also functions as a helicase (Kim et al. (1995) *Biochem. Biophys. Res. Comm.* 215: 160-166; Jin and Peterson (1995) *Arch. Biochem. Biophys.*, 323:47-53; Warrener and Collett (1995) *J. Virol.* 69:1720-1726). Finally, the NS5B proteins of pestiviruses and hepaciviruses have the predicted RNA-directed RNA polymerases activity (Behrens et al.(1996) *EMBO J.* 15:12-22; Lchmannet al.(1997) *J. Virol.* 71:8416-8428; Yuan et al.(1997) *Biochem. Biophys. Res. Comm.* 232:231-235; Hagedorn, PCT WO 97/12033; Zhong et al.(1998) *J. Virol.* 72.9365-9369).

Hepatitis C Virus

The hepatitis C virus (HCV) is the leading cause of chronic liver disease worldwide. (Boyer, N. *et al. J. Hepatol.* 32:98-112, 2000). HCV causes a slow growing viral infection and is the major cause of cirrhosis and hepatocellular carcinoma (Di Besceglie, A. M. and Bacon, B. R., *Scientific American*, Oct.: 80-85, (1999); Boyer, N. *et al. J. Hepatol.* 32:98-112, 2000). An estimated 170 million persons are infected with HCV worldwide. (Boyer, N. *et al. J. Hepatol.* 32:98-112, 2000). Cirrhosis caused by chronic hepatitis C infection accounts for 8,000-12,000 deaths per year in the United States, and HCV infection is the leading indication for liver transplantation.

HCV is known to cause at least 80% of posttransfusion hepatitis and a substantial proportion of sporadic acute hepatitis. Preliminary evidence also implicates HCV in many cases of "idiopathic" chronic hepatitis, "cryptogenic" cirrhosis, and probably hepatocellular carcinoma unrelated to other hepatitis viruses, such as Hepatitis B Virus (HBV). A small proportion of healthy persons appear to be chronic HCV carriers, varying with geography and other epidemiological factors. The numbers may substantially exceed those for HBV, though information is still preliminary; how many of these persons have subclinical chronic liver disease is unclear. (The Merck Manual, ch. 69, p. 901, 16th ed., (1992)).

HCV is an enveloped virus containing a positive-sense single-stranded RNA genome of approximately 9.4kb. The viral genome consists of a 5' untranslated region (UTR), a long open reading frame encoding a polyprotein precursor of approximately 3011 amino acids, and a short 3' UTR. The 5' UTR is the most highly conserved part of the HCV genome and is important for the initiation and control of polyprotein translation. Translation of the HCV genome is initiated by a cap-independent mechanism known as internal ribosome entry. This mechanism involves the binding of ribosomes to an RNA sequence known as the internal ribosome entry site (IRES). An RNA pseudoknot structure has recently been determined to be an essential structural element of the HCV IRES. Viral structural proteins include a nucleocapsid core protein (C) and two envelope glycoproteins, E1 and E2. HCV also encodes two proteinases, a zinc-dependent metalloproteinase encoded by the NS2-NS3 region and a serine proteinase encoded in the NS3 region. These proteinases are required for cleavage of specific regions of the precursor polyprotein into mature peptides. The carboxyl half of nonstructural protein 5, NS5B, contains the RNA-dependent RNA polymerase. The function of the remaining nonstructural proteins, NS4A and NS4B, and that of NS5A (the amino-terminal half of nonstructural protein 5) remain unknown.

A significant focus of current antiviral research is directed to the development of improved methods of treatment of chronic HCV infections in humans (Di Besceglie, A. M. and Bacon, B. R., *Scientific American*, Oct.: 80-85, (1999)).

Treatment of HCV Infection with Interferon

Interferons (IFNs) have been commercially available for the treatment of chronic hepatitis for nearly a decade. IFNs are glycoproteins produced by immune cells in response to viral infection. IFNs inhibit replication of a number of viruses, including HCV, and when used as the sole treatment for hepatitis C infection, IFN can in certain cases suppress serum

HCV-RNA to undetectable levels. Additionally, IFN can normalize serum amino transferase levels. Unfortunately, the effect of IFN is temporary and a sustained response occurs in only 8%-9% of patients chronically infected with HCV (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000). Most patients, however, have difficulty tolerating interferon treatment, which causes severe flu-like symptoms, weight loss, and lack of energy and stamina.

A number of patents disclose Flaviviridae, including HCV, treatments, using interferon-based therapies. For example, U.S. Patent No. 5,980,884 to Blatt *et al.* discloses methods for retreatment of patients afflicted with HCV using consensus interferon. U.S. Patent No. 5,942,223 to Bazer *et al.* discloses an anti-HCV therapy using ovine or bovine interferon-tau. U.S. Patent No. 5,928,636 to Alber *et al.* discloses the combination therapy of interleukin-12 and interferon alpha for the treatment of infectious diseases including HCV. U.S. Patent No. 5,849,696 to Chretien *et al.* discloses the use of thymosins, alone or in combination with interferon, for treating HCV. U.S. Patent No. 5,830,455 to Valtuena *et al.* discloses a combination HCV therapy employing interferon and a free radical scavenger. U.S. Patent No. 5,738,845 to Imakawa discloses the use of human interferon tau proteins for treating HCV. Other interferon-based treatments for HCV are disclosed in U.S. Patent No. 5,676,942 to Testa *et al.*, U.S. Patent No. 5,372,808 to Blatt *et al.*, and U.S. Patent No. 5,849,696. A number of patents also disclose pegylated forms of interferon, such as U.S. Patent Nos. 5,747,646, 5,792,834 and 5,834,594 to Hoffmann-La Roche Inc; PCT Publication No. WO 99/32139 and WO 99/32140 to Enzon; WO 95/13090 and US Patent Nos. 5,738,846 and 5,711,944 to Schering; and U.S. Patent No. 5,908,621 to Glue *et al.*.

Interferon alpha-2a and interferon alpha-2b are currently approved as monotherapy for the treatment of HCV. ROFERON®-A (Roche) is the recombinant form of interferon alpha-2a. PEGASYS® (Roche) is the pegylated (i.e. polyethylene glycol modified) form of interferon alpha-2a. INTRON®A (Schering Corporation) is the recombinant form of Interferon alpha-2b, and PEG-INTRON® (Schering Corporation) is the pegylated form of interferon alpha-2b.

Other forms of interferon alpha, as well as interferon beta, gamma, tau and omega are currently in clinical development for the treatment of HCV. For example, INFERGEN (interferon alphacon-1) by InterMune, OMNIFERON (natural interferon) by Viragen, ALBUFERON by Human Genome Sciences, REBIF (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, and

interferon gamma, interferon tau, and interferon gamma- 1b by InterMune are in development.

Ribivarin

Ribavirin (1-β-D-ribofuranosyl-1-1,2,4-triazole-3-carboxamide) is a synthetic, non-interferon-inducing, broad spectrum antiviral nucleoside analog sold under the trade name, Virazole (The Merck Index, 11th edition, Editor: Budavari, S., Merck & Co., Inc., Rahway, NJ, p1304, 1989). United States Patent No. 3,798,209 and RE29,835 disclose and claim ribavirin. Ribavirin is structurally similar to guanosine, and has in vitro activity against several DNA and RNA viruses including *Flaviviridae* (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000).

Ribavirin reduces serum amino transferase levels to normal in 40% of patients, but it does not lower serum levels of HCV-RNA (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000). Thus, ribavirin alone is not effective in reducing viral RNA levels. Additionally, ribavirin has significant toxicity and is known to induce anemia.

Ribavirin is not approved for monotherapy against HCV. It has been approved in combination with interferon alpha-2a or interferon alpha-2b for the treatment of HCV.

Combination of Interferon and Ribavirin

The current standard of care for chronic hepatitis C is combination therapy with an alpha interferon and ribavirin. The combination of interferon and ribavirin for the treatment of HCV infection has been reported to be effective in the treatment of interferon naïve patients (Battaglia, A.M. *et al.*, *Ann. Pharmacother.* 34:487-494, 2000), as well as for treatment of patients when histological disease is present (Berenguer, M. *et al. Antivir. Ther.* 3(Suppl. 3):125-136, 1998). Studies have show that more patients with hepatitis C respond to pegylated interferon-alpha/ribavirin combination therapy than to combination therapy with unpegylated interferon alpha. However, as with monotherapy, significant side effects develop during combination therapy, including hemolysis, flu-like symptoms, anemia, and fatigue. (Gary L. Davis. *Gastroenterology* 118:S104-S114, 2000).

Combination therapy with PEG-INTRON® (peginterferon alpha-2b) and REBETOL® (Ribavirin, USP) Capsules is available from Schering Corporation. REBETOL® (Schering Corporation) has also been approved in combination with INTRON®

A (Interferon alpha-2b, recombinant, Schering Corporation). Roche's PEGASYS® (pegylated interferon alpha-2a) and COPEGUS® (ribavirin) are also approved for the treatment of HCV.

PCT Publication Nos. WO 99/59621, WO 00/37110, WO 01/81359, WO 02/32414 and WO 03/024461 by Schering Corporation disclose the use of pegylated interferon alpha and ribavirin combination therapy for the treatment of HCV. PCT Publication Nos. WO 99/15194, WO 99/64016, and WO 00/24355 by Hoffmann-La Roche Inc also disclose the use of pegylated interferon alpha and ribavirin combination therapy for the treatment of HCV.

Additional Methods to Treat Flaviviridae Infections

The development of new antiviral agents for flaviviridae infections, especially hepatitis C, is currently underway. Specific inhibitors of HCV-derived enzymes such as protease, helicase, and polymerase inhibitors are being developed. Drugs that inhibit other steps in HCV replication are also in development, for example, drugs that block production of HCV antigens from the RNA (IRES inhibitors), drugs that prevent the normal processing of HCV proteins (inhibitors of glycosylation), drugs that block entry of HCV into cells (by blocking its receptor) and nonspecific cytoprotective agents that block cell injury caused by the virus infection. Further, molecular approaches are also being developed to treat hepatitis C, for example, ribozymes, which are enzymes that break down specific viral RNA molecules, and antisense oligonucleotides, which are small complementary segments of DNA that bind to viral RNA and inhibit viral replication, are under investigation. A number of HCV treatments are reviewed by Bymock *et al.* in *Antiviral Chemistry & Chemotherapy*, 11:2; 79-95 (2000) and De Francesco et al. in *Antiviral Research*, 58: 1-16 (2003).

Examples of classes of drugs that are being developed to treat Flaviviridae infections include:

(1) Protease inhibitors

Substrate-based NS3 protease inhibitors (Attwood *et al., Antiviral peptide derivatives*, PCT WO 98/22496, 1998; Attwood *et al., Antiviral Chemistry and Chemotherapy* 1999, *10*, 259-273; Attwood *et al., Preparation and use of amino acid derivatives as anti-viral agents*, German Patent Pub. DE 19914474; Tung *et al. Inhibitors of serine proteases, particularly*

hepatitis C virus NS3 protease, PCT WO 98/17679), including alphaketoamides and hydrazinoureas, and inhibitors that terminate in an electrophile such as a boronic acid or phosphonate (Llinas-Brunet et al, *Hepatitis C inhibitor peptide analogues,* PCT WO 99/07734) are being investigated.

Non-substrate-based NS3 protease inhibitors such as 2,4,6-trihydroxy-3-nitro-benzamide derivatives (Sudo K. *et al.*, *Biochemical and Biophysical Research Communications*, 1997, *238*, 643-647; Sudo K. *et al. Antiviral Chemistry and Chemotherapy*, 1998, *9*, 186), including RD3-4082 and RD3-4078, the former substituted on the amide with a 14 carbon chain and the latter processing a *para*-phenoxyphenyl group are also being investigated.

Sch 68631, a phenanthrenequinone, is an HCV protease inhibitor (Chu M. *et al.*, *Tetrahedron Letters* 37:7229-7232, 1996). In another example by the same authors, Sch 351633, isolated from the fungus *Penicillium griseofulvum,* was identified as a protease inhibitor (Chu M. *et al.*, *Bioorganic and Medicinal Chemistry Letters* 9:1949-1952). Nanomolar potency against the HCV NS3 protease enzyme has been achieved by the design of selective inhibitors based on the macromolecule eglin c. Eglin c, isolated from leech, is a potent inhibitor of several serine proteases such as S. griseus proteases A and B, α-chymotrypsin, chymase and subtilisin. Qasim M.A. *et al.*, *Biochemistry* 36:1598-1607, 1997.

Several U.S. patents disclose protease inhibitors for the treatment of HCV. For example, U.S. Patent No. 6,004,933 to Spruce *et al.* discloses a class of cysteine protease inhibitors for inhibiting HCV endopeptidase 2. U.S. Patent No. 5,990,276 to Zhang *et al.* discloses synthetic inhibitors of hepatitis C virus NS3 protease. The inhibitor is a subsequence of a substrate of the NS3 protease or a substrate of the NS4A cofactor. The use of restriction enzymes to treat HCV is disclosed in U.S. Patent No. 5,538,865 to Reyes *et al.* Peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/008251 to Corvas International, Inc, and WO 02/08187 and WO 02/008256 to Schering Corporation. HCV inhibitor tripeptides are disclosed in US Patent Nos. 6,534,523, 6,410,531, and 6,420,380 to Boehringer Ingelheim and WO 02/060926 to Bristol Myers Squibb. Diaryl peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48172 to Schering Corporation. Imidazoleidinones as NS3 serine protease inhibitors of HCV are disclosed in WO 02/08198 to Schering Corporation and WO 02/48157 to Bristol Myers Squibb. WO 98/17679 to Vertex Pharmaceuticals and WO 02/48116 to Bristol Myers Squibb also disclose HCV protease inhibitors.

(2) Thiazolidine derivatives which show relevant inhibition in a reverse-phase HPLC assay with an NS3/4A fusion protein and NS5A/5B substrate (Sudo K. *et al., Antiviral Research*, **1996**, *32*, 9-18), especially compound RD-1-6250, possessing a fused cinnamoyl moiety substituted with a long alkyl chain, RD4 6205 and RD4 6193;

(3) Thiazolidines and benzanilides identified in Kakiuchi N. *et al. J. EBS Letters 421*, 217-220; Takeshita N. *et al. Analytical Biochemistry*, **1997**, *247*, 242-246;

(4) A phenan-threnequinone possessing activity against protease in a SDS-PAGE and autoradiography assay isolated from the fermentation culture broth of *Streptomyces* sp., Sch 68631 (Chu M. *et al., Tetrahedron Letters*, **1996**, *37*, 7229-7232), and Sch 351633, isolated from the fungus *Penicillium griseofulvum*, which demonstrates activity in a scintillation proximity assay (Chu M. *et al., Bioorganic and Medicinal Chemistry Letters 9*, 1949-1952);

(5) Helicase inhibitors (Diana G.D. *et al., Compounds, compositions and methods for treatment of hepatitis C*, U.S. Pat. No. 5,633,358; Diana G.D. *et al., Piperidine derivatives, pharmaceutical compositions thereof and their use in the treatment of hepatitis C*, PCT WO 97/36554);

(6) Nucleotide polymerase inhibitors and gliotoxin (Ferrari R. *et al. Journal of Virology*, **1999**, *73*, 1649-1654), and the natural product cerulenin (Lohmann V. *et al., Virology*, **1998**, *249*, 108-118);

(7) Antisense phosphorothioate oligodeoxynucleotides (S-ODN) complementary to sequence stretches in the 5' non-coding region (NCR) of the virus (Alt M. *et al., Hepatology*, **1995**, *22*, 707-717), or nucleotides 326-348 comprising the 3' end of the NCR and nucleotides 371-388 located in the core coding region of the HCV RNA (Alt M. *et al., Archives of Virology*, **1997**, *142*, 589-599; Galderisi U. *et al., Journal of Cellular Physiology*, **1999**, *181*, 251-257);

(8) Inhibitors of IRES-dependent translation (Ikeda N *et al.*, *Agent for the prevention and treatment of hepatitis C,* Japanese Patent Pub. JP-08268890; Kai Y. *et al. Prevention and treatment of viral diseases,* Japanese Patent Pub. JP-10101591);

(9) Ribozymes, such as nuclease-resistant ribozymes (Maccjak, D. J. *et al.*, *Hepatology* 1999, *30,* abstract 995) and those disclosed in U.S. Patent No. 6,043,077 to Barber *et al.*, and U.S. Patent Nos. 5,869,253 and 5,610,054 to Draper *et al.*; and

(10) Nucleoside analogs have also been developed for the treatment of Flaviviridae infections.

Idenix Pharmaceuticals discloses the use of branched in the treatment of flaviviruses (including HCV) and pestiviruses in International Publication Nos. WO 01/90121 and WO 01/92282. Specifically, a method for the treatment of hepatitis C infection (and flaviviruses and pestiviruses) in humans and other host animals is disclosed in the Idenix publications that includes administering an effective amount of a biologically active 1', 2', 3' or 4'-branched β-D or β-L nucleosides or a pharmaceutically acceptable salt or derivative thereof, administered either alone or in combination with another antiviral agent, optionally in a pharmaceutically acceptable carrier.

Other patent applications disclosing the use of certain nucleoside analogs to treat hepatitis C virus include: PCT/CA00/01316 (WO 01/32153; filed November 3, 2000) and PCT/CA01/00197 (WO 01/60315; filed February 19, 2001) filed by BioChem Pharma, Inc. (now Shire Biochem, Inc.); PCT/US02/01531 (WO 02/057425; filed January 18, 2002) and PCT/US02/03086 (WO 02/057287; filed January 18, 2002) filed by Merck & Co., Inc., PCT/EP01/09633 (WO 02/18404; published August 21, 2001) filed by Roche, and PCT Publication Nos. WO 01/79246 (filed April 13, 2001), WO 02/32920 (filed October 18, 2001) and WO 02/48165 by Pharmasset, Ltd.

PCT Publication No. WO 99/43691 to Emory University, entitled "2'-Fluoronucleosides" discloses the use of certain 2'-fluoronucleosides to treat HCV.

Eldrup et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.)) described the structure activity relationship of 2'-modified nucleosides for inhibition of HCV.

Bhat et al. (Oral Session V, Hepatitis C Virus, Flaviviridae, 2003 (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.); p A75) describe the synthesis and pharmacokinetic properties of nucleoside analogues as possible inhibitors of HCV RNA replication. The authors report that 2'-modified nucleosides demonstrate potent inhibitory activity in cell-based replicon assays.

Olsen et al. (Oral Session V, Hepatitis C Virus, Flaviviridae; 16th International Conference on Antiviral Research (April 27, 2003, Savannah, Ga.) p A76) also described the effects of the 2'-modified nucleosides on HCV RNA replication.

(11) Other miscellaneous compounds including 1-amino-alkylcyclohexanes (U.S. Patent No. 6,034,134 to Gold *et al.*), alkyl lipids (U.S. Pat. No. 5,922,757 to Chojkier *et al.*), vitamin E and other antioxidants (U.S. Pat. No. 5,922,757 to Chojkier *et al.*), squalene, amantadine, bile acids (U.S. Pat. No. 5,846,964 to Ozeki *et al.*), N-(phosphonoacetyl)-L-aspartic acid, (U.S. Pat. No. 5,830,905 to Diana *et al.*), benzenedicarboxamides (U.S. Pat. No. 5,633,388 to Diana *et al.*), polyadenylic acid derivatives (U.S. Pat. No. 5,496,546 to Wang *et al.*), 2',3'-dideoxyinosine (U.S. Pat. No. 5,026,687 to Yarchoan *et al.*), benzimidazoles (U.S. Pat. No. 5,891,874 to Colacino *et al.*), plant extracts (U.S. Patent No. 5,837,257 to Tsai *et al.*, U.S. Patent No. 5,725,859 to Omer *et al.*, and U.S. Patent No. 6,056,961), and piperidenes (U.S. Patent No. 5,830,905 to Diana *et al.*).

(12) Other compounds currently in preclinical or clinical development for treatment of hepatitis C virus include: Interleukin-10 by Schering-Plough, IP-501 by Interneuron, Merimebodib (VX-497) by Vertex, AMANTADINE® (Symmetrel) by Endo Labs Solvay, HEPTAZYME® by RPI, IDN-6556 by Idun Pharma., XTL-002 by XTL., HCV/MF59 by Chiron, CIVACIR® (Hepatitis C Immune Globulin) by NABI, LEVOVIRIN® by ICN/Ribapharm, VIRAMIDINE® by ICN/Ribapharm, ZADAXIN® (thymosin alpha-1) by Sci Clone, thymosin plus pegylated interferon by Sci Clone, CEPLENE® (histamine dihydrochloride) by Maxim, VX 950 / LY 570310 by Vertex/Eli Lilly, ISIS 14803 by Isis Pharmaceutical/Elan, IDN-6556 by Idun Pharmaceuticals, Inc., JTK 003 by AKROS Pharma, BILN-2061 by Boehringer Ingelheim, CellCept (mycophenolate mofetil) by Roche, T67, a β-tubulin inhibitor, by Tularik, a therapeutic vaccine directed to E2 by Innogenetics, FK788 by Fujisawa Healthcare, Inc., IdB 1016 (Siliphos, oral silybin-phosphatdylcholine phytosome), RNA replication inhibitors (VP50406) by ViroPharma/Wyeth, therapeutic vaccine by Intercell, therapeutic vaccine by

Epimmune/Genencor, IRES inhibitor by Anadys, ANA 245 and ANA 246 by Anadys, immunotherapy (Therapore) by Avant, protease inhibitor by Corvas/SChering, helicase inhibitor by Vertex, fusion inhibitor by Trimeris, T cell therapy by CellExSys, polymerase inhibitor by Biocryst, targeted RNA chemistry by PTC Therapeutics, Dication by Immtech, Int., protease inhibitor by Agouron, protease inhibitor by Chiron/Medivir, antisense therapy by AVI BioPharma, antisense therapy by Hybridon, hemopurifier by Aethlon Medical, therapeutic vaccine by Merix, protease inhibitor by Bristol-Myers Squibb/Axys, Chron-VacC, a therapeutic vaccine, by Tripep, UT 231B by United Therapeutics, protease, helicase and polymerase inhibitors by Genelabs Technologies, IRES inhibitors by Immusol, R803 by Rigel Pharmaceuticals, INFERGEN® (interferon alphacon-1) by InterMune, OMNIFERON® (natural interferon) by Viragen, ALBUFERON® by Human Genome Sciences, REBIF® (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, interferon gamma, interferon tau, and Interferon gamma- 1b by InterMune.

Nucleoside prodrugs have been previously described for the treatment of other forms of hepatitis. WO 00/09531 (filed August 10, 1999) and WO 01/96353 (filed June 15, 2001) to Idenix Pharmaceuticals, discloses 2'-deoxy-β-L-nucleosides and their 3'-prodrugs for the treatment of HBV. U.S. Patent No. 4,957,924 to Beauchamp discloses various therapeutic esters of acyclovir.

In light of the fact that HCV infection has reached epidemic levels worldwide, and has tragic effects on the infected patient, there remains a strong need to provide new effective pharmaceutical agents to treat hepatitis C that have low toxicity to the host.

Further, given the rising threat of other flaviviridae infections, there remains a strong need to provide new effective pharmaceutical agents that have low toxicity to the host.

Therefore, it is an object of the present invention to provide a compound, method and composition for the treatment of a host infected with flaviviridae, including hepatitis C virus.

It is another object of the present invention to provide a compound, method and composition generally for the treatment of patients infected with *pestiviruses*, *flaviviruses*, or *hepaciviruses*.

SUMMARY OF THE INVENTION

2'- and 3'-prodrugs of 1', 2', 3' or 4'-branched β-D or β-L nucleosides, or their pharmaceutically acceptable salts, or pharmaceutically acceptable formulations containing these compounds are useful in the prevention and treatment of *Flaviviridae* infections and other related conditions such as anti-*Flaviviridae* antibody positive and *Flaviviridae*-positive conditions, chronic liver inflammation caused by HCV, cirrhosis, acute hepatitis, fulminant hepatitis, chronic persistent hepatitis, and fatigue. These compounds or formulations can also be used prophylactically to prevent or retard the progression of clinical illness in individuals who are anti-*Flaviviridae* antibody or *Flaviviridae*-antigen positive or who have been exposed to a *Flaviviridae*. In one specific embodiment, the *Flaviviridae* is hepatitis C. In an alternative embodiment, the compound is used to treat any virus that replicates through an RNA-dependent RNA polymerase.

A method for the treatment of a *Flaviviridae* infection in a host, including a human, is also disclosed that includes administering an effective amount of a 2'- or 3'- prodrug of a biologically active 1', 2', 3' or 4'-branched β-D or β-L nucleosides or a pharmaceutically acceptable salt thereof, administered either alone or in combination or alternation with another anti-*Flaviviridae* agent, optionally in a pharmaceutically acceptable carrier. The term 1', 2', 3' or 4'-branched, as used in this specification, refers to a nucleoside that has an additional non-natural substituent in the 1', 2', 3' or 4'-position (i.e., carbon is bound to four nonhydrogen substituents). The term 2'-prodrug, as used herein, refers to a 1', 2', 3' or 4'-branched β-D or β-L nucleoside that has a biologically cleavable moiety at the 2'-position, including, but not limited to acyl, and in one embodiment, a natural or synthetic L- or D-amino acid, preferably an L-amino acid. The term 3'-prodrug, as used herein, refers to a 1', 2', 3' or 4'-branched β-D or β-L nucleoside that has a biologically cleavable moiety at the 3'-position, including, but not limited to acyl, and in one embodiment, a natural or synthetic L- or D-amino acid, preferably an L-amino acid. Certain other alternative embodiments are also included.

In one embodiment, the prodrug of 1', 2', 3' or 4'-branched β-D or β-L nucleoside includes biologically cleavable moieties at the 2' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 2'-L or D-amino acid ester and 2',5'-L or D-diamino acid ester of 1', 2',

3' or 4'-branched β-D or β-L nucleosides, preferably L-amino acid, with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 15 micromolar, and even more preferably less than 10 micromolar; 2'-(alkyl or aryl) ester or 2',5'-L-di(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar; and prodrugs of 2',5'-diesters of 1', 2', 3' or 4'-branched β-D or β-L nucleosides wherein (i) the 2' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 2' ester is independently an alkyl or aryl ester and the 5'-ester is an amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention are 2'-L-valine ester of β-D-2'-methyl-cytidine; 2'-L-valine ester of β-D-2'-methyl-thymidine; 2'-L-valine ester of β-D-2'-methyl-adenosine; 2'-L-valine ester of β-D-2'-methyl-guanosine; 2'-L-valine ester of β-D-2'-methyl-5-fluorocytidine; 2'-L-valine ester of β-D-2'-methyl-uridine; 2'-acetyl ester of β-D-2'-methyl-cytidine; 2'-acetyl ester of β-D-2'-methyl-thymidine; 2'-acetyl ester of β-D-2'-methyl-adenosine; 2'-acetyl ester of β-D-2'-methyl-guanosine; 2'-acetyl ester of β-D-2'-methyl-5-fluoro-cytidine; and 2'-esters of β-D-2'-methyl-(cytidine, 5-fluorocytidine, guanosine, uridine, adenosine, or thymidine) wherein (i) the 2' ester is an amino acid ester; or (ii) the 2' ester is an alkyl or aryl ester.

Additional examples of prodrugs falling within the invention are 2',5'-L-divaline ester of β-D-2'-methyl-cytidine (dival-2'-Me-L-dC); 2',5'-L-divaline ester of β-D-2'-methyl-thymidine; 2',5'-L-divaline ester of β-D-2'-methyl-adenosine; 2',5'-L-divaline ester of β-D-2'-methyl-guanosine; 2',5'-L-divaline ester of β-D-2'-methyl-5-fluoro-cytidine; 2',5'-L-divaline ester of β-D-2'-methyl-uridine; 2',5'-diacetyl ester of β-D-2'-methyl-cytidine; 2',5'-diacetyl ester of β-D-2'-methyl-thymidine; 2',5'-diacetyl ester of β-D-2'-methyl-adenosine; 2',5'-diacetyl ester of β-D-2'-methyl-guanosine; 2',5'-diacetyl ester of β-D-2'-methyl-5-fluoro-cytidine; and 2',5'-diesters of β-D-2'-methyl-(cytidine, 5-fluorocytidine, guanosine, uridine, adenosine, or thymidine) wherein (i) the 2' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 2' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In another embodiment, the prodrug of 1', 2', 3' or 4'-branched β-D or β-L nucleoside includes biologically cleavable moieties at the 3' and/or 5' positions. Preferred moieties are natural or synthetic D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 3'-L or D-amino acid ester and 3',5'-L or D-diamino acid ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides, preferably L-amino acid, with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 15 micromolar, and even more preferably less than 10 micromolar; 3'-(alkyl or aryl) ester or 3',5'-L-di(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar; and prodrugs of 3',5'-diesters of 1', 2', 3' or 4'-branched β-D or β-L nucleosides wherein (i) the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 3' ester is independently an alkyl or aryl ester and the 5'-ester is an amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar.

Examples of prodrugs falling within the invention are 3'-L-valine ester of β-D-2'-methyl-cytidine; 3'-L-valine ester of β-D-2'-methyl-thymidine; 3'-L-valine ester of β-D-2'-methyl-adenosine; 3'-L-valine ester of β-D-2'-methyl-guanosine; 3'-L-valine ester of β-D-2'-methyl-5-fluorocytidine; 3'-L-valine ester of β-D-2'-methyl-uridine; 3'-acetyl ester of β-D-2'-methyl-cytidine; 3'-acetyl ester of β-D-2'-methyl-thymidine; 3'-acetyl ester of β-D-2'-methyl-adenosine; 3'-acetyl ester of β-D-2'-methyl-guanosine; 3'-acetyl ester of β-D-2'-methyl-5-fluoro-cytidine; and 3'-esters of β-D-2'-methyl-(cytidine, 5-fluorocytidine, guanosine, uridine, adenosine, or thymidine) wherein (i) the 3' ester is an amino acid ester; or (ii) the 3' ester is an alkyl or aryl ester.

Additional examples of prodrugs falling within the invention are 3',5'-L-divaline ester of β-D-2'-methyl-cytidine (dival-2'-Me-L-dC); 3',5'-L-divaline ester of β-D-2'-methyl-thymidine; 3',5'-L-divaline ester of β-D-2'-methyl-adenosine; 3',5'-L-divaline ester of β-D-2'-methyl-guanosine; 3',5'-L-divaline ester of β-D-2'-methyl-5-fluoro-cytidine; 3',5'-L-divaline ester of β-D-2'-methyl-uridine; 3',5'-diacetyl ester of β-D-2'-methyl-cytidine; 3',5'-diacetyl ester of β-D-2'-methyl-thymidine; 3',5'-diacetyl ester of β-D-2'-methyl-adenosine; 3',5'-diacetyl ester of β-D-2'-methyl-guanosine; 3',5'-diacetyl ester of β-D-2'-methyl-5-fluoro-cytidine; and 3',5'-diesters of β-D-2'-methyl-(cytidine, 5-fluorocytidine, guanosine,

uridine, adenosine, or thymidine) wherein (i) the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

In another embodiment, the prodrug of 1', 2', 3' or 4'-branched β-D or β-L nucleoside includes biologically cleavable moieties at the 2', 3' and/or 5' positions. Preferred moieties are D or L amino acid esters, including D or L-valyl, though preferably L-amino acid esters, such as L-valyl, and alkyl esters including acetyl. Therefore, this invention specifically includes 2',3'-L or D-diamino acid ester and 2',3',5'-L or D-triamino acid ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides, preferably L-amino acid, with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 15 micromolar, and even more preferably less than 10 micromolar; 2',3'-di(alkyl or aryl) ester or 2',3',5'-L-tri(alkyl or aryl) ester of 1', 2', 3' or 4'-branched β-D or β-L nucleosides with any desired purine or pyrimidine base, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar; and prodrugs of 2',3'-diesters of 1', 2', 3' or 4'-branched β-D or β-L nucleosides wherein (i) the 2' ester is an amino acid ester and the 3'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; and (iv) the 2' ester is independently an alkyl or aryl ester and the 3'-ester is an amino acid ester, wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar. Further, 2',3',5'-triesters of 1', 2', 3' or 4'-branched β-D or β-L nucleosides wherein (i) all three esters are amino acid esters; (ii) all three esters are independently alkyl or aryl esters; (iii) the 2' ester is an amino acid ester, the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (iv) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an alkyl or aryl ester; (v) the 2' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; (vi) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an amino acid ester; (vii) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; wherein the parent drug optionally has an EC_{50} of less than 10 or 15 micromolar.

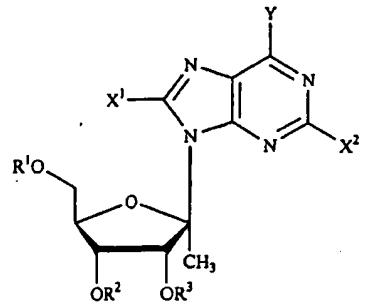
Examples of prodrugs falling within the invention include 2',3'-L-divaline ester of β-D-2'-methyl-cytidine (dival-2'-Me-L-dC); 2',3'-L-divaline ester of β-D-2'-methyl-thymidine; 2',3'-L-divaline ester of β-D-2'-methyl-adenosine; 2',3'-L-divaline ester of β-D-

2'-methyl-guanosine; 2',3'-L-divaline ester of β-D-2'-methyl-5-fluoro-cytidine; 2',3'-L-divaline ester of β-D-2'-methyl-uridine; 2',3'-diacetyl ester of β-D-2'-methyl-cytidine; 2',3'-diacetyl ester of β-D-2'-methyl-thymidine; 2',3'-diacetyl ester of β-D-2'-methyl-adenosine; 2',3'-diacetyl ester of β-D-2'-methyl-guanosine; 2',3'-diacetyl ester of β-D-2'-methyl-5-fluoro-cytidine; and 2',3'-diesters of β-D-2'-methyl-(cytidine, 5-fluorocytidine, guanosine, uridine, adenosine, or thymidine) wherein (i) the 2' ester is an amino acid ester and the 3'-ester is an alkyl or aryl ester; (ii) both esters are amino acid esters; (iii) both esters are independently alkyl or aryl esters; or (iv) the 2' ester is an alkyl or aryl ester and the 3'-ester is an amino acid ester.

Additional examples of prodrugs falling within the invention include 2',3',5'-L-trivaline ester of β-D-2'-methyl-cytidine (trival-2'-Me-L-dC); 2',3',5'-L-trivaline ester of β-D-2'-methyl-thymidine; 2',3',5'-L-trivaline ester of β-D-2'-methyl-adenosine; 2',3',5'-L-trivaline ester of β-D-2'-methyl-guanosine; 2',3',5'-L-trivaline ester of β-D-2'-methyl-5-fluoro-cytidine; 2',3',5'-L-trivaline ester of β-D-2'-methyl-uridine; 2',3',5'-triacetyl ester of β-D-2'-methyl-cytidine; 2',3',5'-triacetyl ester of β-D-2'-methyl-thymidine; 2',3',5'-triacetyl ester of β-D-2'-methyl-adenosine; 2',3',5'-triacetyl ester of β-D-2'-methyl-guanosine; 2',3',5'-triacetyl ester of β-D-2'-methyl-5-fluoro-cytidine; and 2',3',5'-triesters of β-D-2'-methyl-(cytidine, 5-fluorocytidine, guanosine, uridine, adenosine, or thymidine) wherein (i) all three esters are amino acid esters; (ii) all three esters are independently alkyl or aryl esters; (iii) the 2' ester is an amino acid ester, the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; (iv) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an alkyl or aryl ester; (v) the 2' ester is an alkyl or aryl ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester; (vi) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an amino acid ester; (vii) the 2' ester is an alkyl or aryl ester, the 3' ester is an amino acid ester and the 5'-ester is an alkyl or aryl ester; and (viii) the 2' ester is an amino acid ester, the 3' ester is an alkyl or aryl ester and the 5'-ester is an amino acid ester.

Pharmaceutically acceptable salts of tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorbate, α-ketoglutarate, and α-glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicyate, sulfate, sulfonate, nitrate, bicarbonate, hydrobromate, hydrobromide, hydroiodide, carbonate, and phosphoric acid salts are provided. A particularly preferred embodiment is the mono or dihydrochloride pharmaceutically acceptable salts.

In a first principal embodiment, a compound of Formula (I), or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(I)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate, for example when administered *in vivo*;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4;

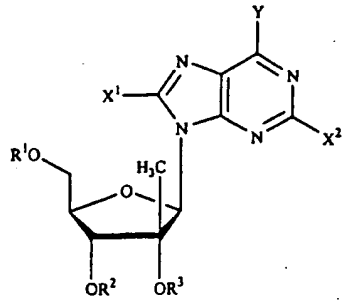
X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In the embodiments described herein, R^1, R^2 and/or R^3 can independently be a pharmaceutically acceptable leaving group which is capable of providing a compound

wherein R^1, R^2 and/or R^3 is independently H or phosphate (including mono-, di- or triphosphate), for example when administered *in vivo*.

In a second principal embodiment, a compound of Formula II, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(II)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

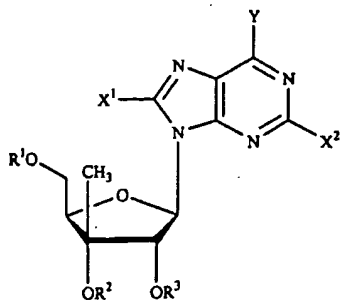
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a third principal embodiment, a compound of Formula III, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(III)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

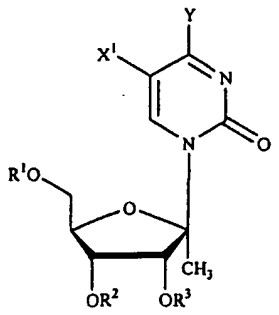
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a fourth principal embodiment, a compound of Formula IV, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(IV)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

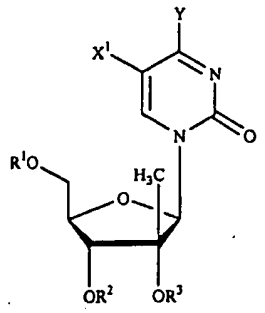
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a fifth principal embodiment, a compound of Formula V, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(V)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

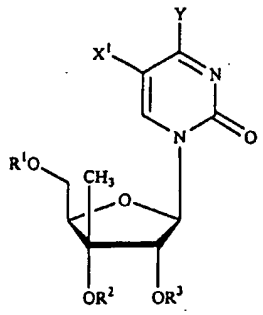
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a sixth principal embodiment, a compound of Formula VI, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(VI)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

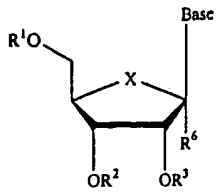
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

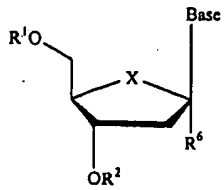
X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a seventh principal embodiment, a compound selected from Formulas VII and VIII, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(VII)



(VIII)

wherein:

Base is a purine or pyrimidine base as defined herein;

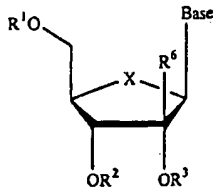
R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

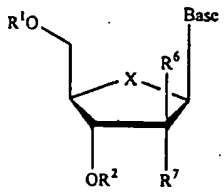
R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a eighth principal embodiment, a compound of Formulas IX and X, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(IX)



(X)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

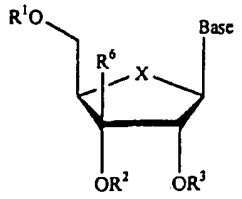
wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

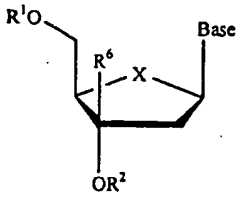
R^7 is hydrogen, OR^3, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a ninth principal embodiment a compound selected from Formulas XI and XII, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XI)



(XII)

wherein:

Base is a purine or pyrimidine base as defined herein;

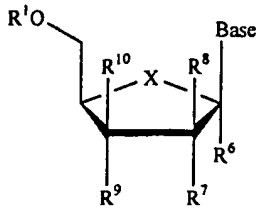
R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a tenth principal embodiment the invention provides a compound of Formula XIII, or a pharmaceutically acceptable salt or prodrug thereof:



(XIII)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

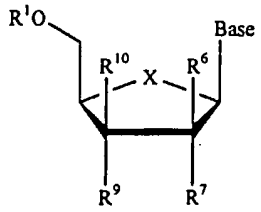
wherein at least one of R^7 and R^9 is OR^2, wherein the R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or

arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; alternatively, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

In a eleventh principal embodiment the invention provides a compound of Formula XIV, or a pharmaceutically acceptable salt or prodrug thereof:



(XIV)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl),

-O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

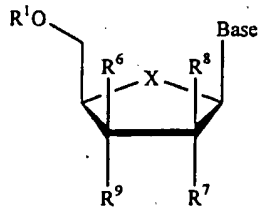
wherein at least one of R^7 and R^9 is OR^2, wherein the R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^{10} is H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, or R^7 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

In a twelfth principal embodiment, the invention provides a compound of Formula XV, or a pharmaceutically acceptable salt or prodrug thereof:



(XV)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-

alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

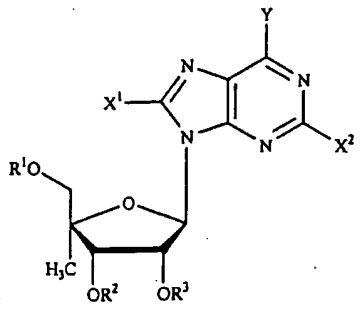
wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 is H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^8 and R^9 can come together to form a pi bond;

X is O, S, SO_2 or CH_2.

In a thirteenth principal embodiment, a compound of Formula XVI, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XVI)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

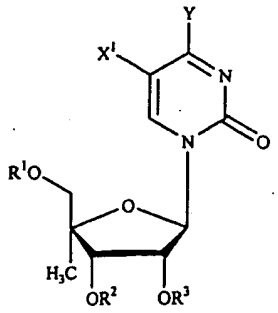
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a fourteenth principal embodiment, a compound of Formula XVII, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XVII)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

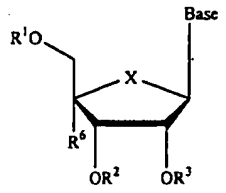
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

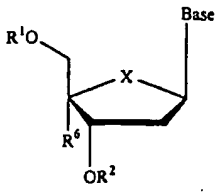
X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a fifteenth principal embodiment, a compound selected from Formulas XVIII and XIX, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XVIII)



(XIX)

wherein:

Base is a purine or pyrimidine base as defined herein;

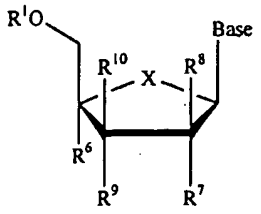
R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a sixteenth principal embodiment the invention provides a compound of Formula XX, or a pharmaceutically acceptable salt or prodrug thereof:



(XX)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or

arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

In one embodiment, the amino acid residue is of the formula $C(O)C(R^{11})(R^{12})(NR^{13}R^{14})$, wherein

R^{11} is the side chain of an amino acid and wherein, as in proline, R^{11} can optionally be attached to R^{13} to form a ring structure; or alternatively, R^{11} is an alkyl, aryl, heteroaryl or heterocyclic moiety;

R^{12} is hydrogen, alkyl (including lower alkyl) or aryl; and

R^{13} and R^{14} are independently hydrogen, acyl (including an acyl derivative attached to R^{11}) or alkyl (including but not limited to methyl, ethyl, propyl, and cyclopropyl).

In another preferred embodiment, at least one of R^2 and R^3 is an amino acid residue, and is preferably L-valinyl.

The β-D- and β-L-nucleosides of this invention may inhibit HCV polymerase activity. Nucleosides can be screened for their ability to inhibit HCV polymerase activity *in vitro* according to screening methods set forth more particularly herein. One can readily determine the spectrum of activity by evaluating the compound in the assays described herein or with another confirmatory assay.

In one embodiment the efficacy of the anti-HCV compound is measured according to the concentration of compound necessary to reduce the plaque number of the virus *in vitro*, according to methods set forth more particularly herein, by 50% (i.e. the compound's EC_{50}). In preferred embodiments the parent of the prodrug compound exhibits an EC_{50} of less than

25, 15, 10, 5, or 1 micromolar. In one embodiment the efficacy of the anti-*Flaviviridae* compound is measured according to the concentration of compound necessary to reduce the plaque number of the virus *in vitro*, according to methods set forth more particularly herein, by 50% (i.e. the compound's EC_{50}). In preferred embodiments the compound exhibits an EC_{50} of less than 15 or 10 micromolar, when measured according to the polymerase assay described in Ferrari *et al., J. Virol.*, 73:1649-1654, 1999; Ishii *et al., Hepatology*, 29:1227-1235,1999; Lohmann *et al., J. Biol. Chem.*, 274:10807-10815, 1999; or Yamashita *et al, J. Biol. Chem.*, 273:15479-15486, 1998.

In another embodiment, combination and/or alternation therapy are provided. In combination therapy, an effective dosage of two or more agents are administered together, whereas during alternation therapy an effective dosage of each agent is administered serially. The dosages will depend on absorption, inactivation, and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens and schedules should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions.

The invention also provides combinations of at least two of the herein described prodrugs. The invention further provides at least one of the described 2' and 3'-prodrugs in combination or alternation with a second nucleoside that exhibits activity against a *Flaviviridae* virus, including but not limited to a parent drug of any of the prodrugs defined herein, i.e. β-D-2'-methyl-cytidine, β-D-2'-methyl-thymidine, β-D-2'-methyl-adenosine, β-D-2'-methyl-guanosine, β-D-2'-methyl-5-fluorocytidine and/or β-D-2'-methyl-uridine. Alternatively, the 2' or 3'-prodrugs can be administered in combination or alternation with other anti-*Flaviviridae* agent exhibits an EC_{50} of less than 10 or 15 micromolar, or their prodrugs or pharmaceutically acceptable salts.

Nonlimiting examples of antiviral agents that can be used in combination with the compounds disclosed herein include:

(1) an interferon and/or ribavirin; (2) Substrate-based NS3 protease inhibitors;. (3) Non-substrate-based inhibitors; (4) Thiazolidine derivatives; (5) Thiazolidines and benzanilides; (6) A phenan-threnequinone; (7) NS3 inhibitors; (8) HCV helicase inhibitors; (9) polymerase inhibitors, including RNA-dependent RNA-polymerase inhibitors; (10)

Antisense oligodeoxynucleotides (11) Inhibitors of IRES-dependent translation; (12) Nuclease-resistant ribozymes; and (13) other compounds that exhibit activity against a flaviviridae. The invention further includes administering the prodrug in combination or alternation with an immune modulator or other pharmaceutically active modifer of viral replication, including a biological material such as a protein, peptide, oligonucleotide, or gamma globulin, including but not limited to interfereon, interleukin, or an antisense oligonucleotides to genes which express or regulate *Flaviviridae* replication.

The compounds described herein have a number of enantiomeric configurations, any of which can be used as desired. The parent nucleoside framework can exist as a β-D or β-L nucleoside. In a preferred embodiment, the compound is administered in a form that is at least 90% of the β-D enantiomer. In another embodiment, the compound is at least 95% of the β-D enantiomer. Certain prodrug acyl esters, specifically including amino acid esters, also have enantiomeric forms. In alternative embodiments, the compounds are used as racemic mixtures or as any combination of β-D or β-L parent nucleoside and L or D amino acid.

In an alternative embodiment, the parent nucleoside compounds of any of the 2' or 3'-prodrugs (i.e., the nucleosides without the 2' or 3'cleavable moieties) provided for the treatment of a *Flaviviridae*, and in particular, an HCV infection.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 provides the structure of various non-limiting examples of nucleosides of the present invention, as well as other known nucleosides, in particular FIAU and ribavirin.

Figure 2 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β-D or β-L nucleoside to obtain a 2'-prodrug. The same general procedure can be used to obtain the 3'-prodrug by selectively protecting the 2' and 5'-hydroxyl groups or protecting the 2', 3' and 5'-hydroxyl groups and selectively deprotecting the 3'-hydroxyl.

Figure 3 provides a non-limiting example of the steps involved in esterification of the 1', 2', 3' or 4'-branched β-D or β-L nucleoside to obtain a 3'-prodrug.

Figure 4 provides a non-limiting example of the esterification of the 1', 2', 3' or 4'-branched β-D or β-L nucleoside to obtain a 2',3'-prodrug.

Figure 5 is an illustration of a process of synthesizing a β-D-2'-C-methyl-ribofuransyl-cytidine or a 3'-O-L-valine ester thereof.

Figure 6 is an illustration of another process of synthesizing a β-D-2'-C-methyl-ribofuransyl-cytidine or a 3'-O-L-valine ester thereof.

Figure 7 is a diagram of a process of synthesizing a β-D-2'-C-methyl-2'-acetyl-ribofuransyl-cytidine-3'-O-L-valine ester.

Figure 8 is a diagram of a process of synthesizing a β-D-2'-C-methyl-2'-acetyl-ribofuransyl-cytidine-3'-O-L-proline ester.

Figure 9 is a diagram of a process of synthesizing a β-D-2'-C-methyl-2'-acetyl-ribofuransyl-cytidine-3'-O-L-alanine ester.

Figure 10 is a diagram of a process of synthesizing a β-D-2'-C-methyl-2'-(cyclohexane carboxylate)-ribofuransyl-cytidine-3'-O-L-valine ester.

Figure 11 is a graph showing the concentration of BVDB (Log_{10} units/ml) over a concentration range of four test compounds and ribavirin as a control in a cell based assay using de novo BVDV infected MDBK cells. This graph shows the antiviral potency of these compounds.

Figure 12 is a photocopy of a gel illustrating the site-specific chain termination of *in vitro* RNA synthesis by β-D-2'-C-methyl-ribofuranosyl cytidine triphosphate at specified guanine residues in RNA templates, as described in Example 32.

Figure 13 is a graph of the the titer of bovine viral diarrhea virus (BVDV) over number of passages of BVDV infected MDBK cells, indicating eradication of a persistent BVDV infection by prolonged treatment with β-D-2'-C-methyl-ribofuranosyl cytidine (16uM) as described in Example 33. Arrows indicate points at which a portion of cells were withdrawn from drug treatment.

Figure 14a and **14b** are graphs of the concentration of bovine viral diarrhea virus (BVDV) in MDBK cells persistently infected with the virus, as described in Example 34. These graphs indicate the synergy between β-D-2'-C-methyl-ribofuranosyl cytidine and interferon alpha 2b (IntronA) in reducing the viral titer. Figure 14a is a graph of the effect of β-D-2'-C-methyl-ribofuranosyl cytidine and IntronA on BVDV (strain NY-1) titers in

persistently infected MDBK cells over time. Figure 14b is a graph of the effect of β-D-2'-C-methyl-ribofuranosyl cytidine in combination with IntronA on BVDV (strain I-N-dIns) titers in persistently-infected MDBK cells.

Figure 15a-d illustrate the results of experiments studying the development of resistance to β-D-2'-C-methyl-ribofuranosyl cytidine treated MDBK cells, infected with bovine viral diarrhea virus (BVDV), as described in Example 35. Figure 15a is a graph of a representative experiment showing the effect over twenty eight days of β-D-2'-C-methyl-ribofuranosyl cytidine or IntronA treatment on BVDV (strain I-N-dIns) titers in persistently infected MDBK cells. Figure 15b is a photocopy of a dish plated with infected MDBK cells that illustrates the size of the foci formed by phenotypes of the wild-type BVDV (strain I-N-dIns), versus the β-D-2'-C-methyl-ribofuranosyl cytidine-resistant BVDV (I-N-dIns 107R), indicating that the resistant virus formed much smaller foci than the wild-type, I-N-dIns strain. Figure 15c is a graph of the titer of BVDV strains I-N-dIns or I-N-dIns-107R over hours post-infection in infected MDBK cells. Figure 15d is a graph of the effect of Intron A on the BVDV viral titer yield in *de novo*-infected MDBK cells treated with IntronA.

Figure 16 is a graph of the concentration of hepatitis C virus (Log_{10}) in individual chimpanzees over days of treatment with β-D-2'-C-methyl-ribofuranosyl cytidine-3'-O-L-valine ester as described in Example 36.

Figure 17 is a graph of the concentration of hepatitis C virus in individual chimpanzees over days of treatment with β-D-2'-C-methyl-ribofuranosyl cytidine-3'-O-L-valine ester as compared to baseline, as described in Example 36.

Figure 18 is a graph of percent of total β-D-2'-C-methyl-ribofuranosyl cytidine-3'-O-L- valine ester remaining in samples over time after incubation of the drug in human plasma at 4°C, 21°C, and 37°C, as described in Example 37.

Figure 19a is a graph showing the relative levels of the di- and tri-phosphate derivatives of β-D-2'-C-methyl-ribofuranosyl cytidine and β-D-2'-C-methyl-ribofuranosyl uridine (mUrd) after incubation of HepG2 cells with 10 μM β-D-2'-C-methyl-ribofuranosyl cytidine over time, as described in Example 37. **Figure 19b** is a graph of the decay of the tri-phosphate derivative of β-D-2'-C-methyl-ribofuranosyl cytidine after incubation of HepG2 cells with 10 μM β-D-2'-C-methyl-ribofuranosyl cytidine over time. **Figure 19c** is a graph of the concentration of the di- and tri-phosphate derivatives of β-D-2'-C-methyl-ribofuranosyl cytidine and β-D-2'-C-methyl-ribofuranosyl uridine (mUrd) after incubation of HepG2 cells

with 10μM β-D-2'-C-methyl-ribofuranosyl cytidine at increasing concentrations of the drug (μM).

Figure 20 is a graph of the concentration (ng/ml) of β-D-2'-C-methyl-ribofuranosyl cytidine in human serum after administration of β-D-2'-C-methyl-ribofuranosyl cytidine-3'-O-L- valine ester to patients, as described in Example 40.

Figure 21 is a graph of the median change of the titer of hepatitis C virus in human patients after administration of β-D-2'-C-methyl-ribofuranosyl cytidine-3'-O-L- valine ester, as described in Example 40. The graph indicates change from baseline in Log_{10} HCV RNA by patient visit.

Figure 22 is a table of the EC_{50} and CC_{50} of representative compounds in a BVDV cell protection assay.

DETAILED DESCRIPTION OF THE INVENTION

The invention as disclosed herein is a compound, a method and composition for the treatment of a *Flaviviridae* infection in humans and other host animals. The method includes the administration of an effective HCV or *Flaviviridae* treatment amount of a 2'- or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside as described herein or a pharmaceutically acceptable salt, derivative or prodrug thereof, optionally in a pharmaceutically acceptable carrier. The compound of this invention either possesses antiviral (i.e., anti-HCV) activity, or is metabolized to a compound that exhibits such activity.

The 2'- or 3'- prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside are acyl derivates of a secondary or tertiary alcohol alpha to a secondary or tertiary carbon. Due to the steric hindrance of these prodrugs over the 5'-prodrugs, an acyl derivative of a primary alcohol, these prodrugs differently modulate the biological properties of the molecule *in vivo*. It has been discovered that the 2'- and 3'-prodrugs of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside can provide a drug with increased half-life and improved pharmacokinetic profile.

The 2'- and 3'- prodrugs in a preferred embodiment is a cleavable acyl group, and most particularly, an amino acid moiety, prepared from any naturally occurring or synthetic

α, β γ or δ amino acid, including but is not limited to, glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the L-configuration. Alternatively, the amino acid can be a derivative of alanyl, valinyl, leucinyl, isoleuccinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycinyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, β-alanyl, β-valinyl, β-leucinyl, β-isoleuccinyl, β-prolinyl, β-phenylalaninyl, β-tryptophanyl, β-methioninyl, β-glycinyl, β-serinyl, β-threoninyl, β-cysteinyl, β-tyrosinyl, β-asparaginyl, β-glutaminyl, β-aspartoyl, β-glutaroyl, β-lysinyl, β-argininyl or β-histidinyl. In one particular, embodiment, the moiety is a valine ester. One particularly preferred compound is the 3'-valine ester of 2'-methyl-ribo-cytidine.

The oral bio-availability of 1', 2', 3' or 4'-branched β-D or β-L nucleoside as the neutral base and the HCl salt is low in rodents and non-human primates. It has been discovered that there is significant competition of 1', 2', 3' or 4'-branched β-D or β-L nucleoside with other nucleosides or nucleoside analogs for absorption, or transport, from the gastrointestinal tract and competition of other nucleosides or nucleoside analogs for the absorption with 1', 2', 3' or 4'-branched β-D or β-L nucleoside. In order to improve oral bioavailability and reduce the potential for drug-drug interaction, 2' and 3'-prodrugs of 1', 2', 3' or 4'-branched β-D or β-L nucleoside were obtained with higher oral bioavailability than the parent molecule and a reduced effect on the bioavailability of other nucleosides or nucleoside analogs used in combination.

The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside have higher oral bioavailability than the parent 1', 2', 3' or 4'-branched β-D or β-L nucleoside and reduced interaction with other nucleosides or nucleoside analogs when used in combination as compared to 1', 2', 3' or 4'-branched β-D or β-L nucleoside.

The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside can be converted to the parent 1', 2', 3' or 4'-branched β-D or β-L nucleoside through de-esterification in the gastrointestinal mucosa, blood or liver. The 2', 3', and/or 5'-mono, di or trivaline ester of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside can be actively transported from the gastrointestinal lumen after oral delivery into the bloodstream by an amino acid transporter function in the mucosa of the gastrointestinal tract. This accounts for

the increase in oral bioavailability compared to the parent 1', 2', 3' or 4'-branched β-D or β-L nucleoside that is transported primarily by a nucleoside transporter function. There is reduced competition for uptake of the 2', 3', and/or 5'-mono, di or trivaline ester of 1', 2', 3' or 4'-branched β-D or β-L nucleoside with other nucleosides or nucleoside analogs that are transported by the nucleoside transporter function and not the amino acid transporter function. As partial de-esterification of the di or trivaline ester of 1', 2', 3' or 4'-branched β-D or β-L nucleoside occurs prior to complete absorption, the mono or divaline ester continues to be absorbed using the amino acid transporter function. Therefore, the desired outcome of better absorption, or bioavailability, and reduced competition with other nucleosides or nucleoside analogs for uptake into the bloodstream can be maintained.

In summary, the present invention includes the following features:

(a) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, as described herein, and pharmaceutically acceptable salts and compositions thereof;

(b) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside as described herein, and pharmaceutically acceptable salts and compositions thereof for use in the treatment and/or prophylaxis of a *Flaviviridae* infection, especially in individuals diagnosed as having a *Flaviviridae* infection or being at risk of becoming infected by hepatitis C;

(c) a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or their pharmaceutically acceptable salts and compositions as described herein substantially in the absence of the opposite enantiomers of the described nucleoside, or substantially isolated from other chemical entities;

(d) processes for the preparation of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, as described in more detail below;

(e) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside or a pharmaceutically acceptable salt thereof together with a pharmaceutically acceptable carrier or diluent;

(f) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside or a pharmaceutically acceptable salt thereof together with one or more other effective anti-HCV agents, optionally in a pharmaceutically acceptable carrier or diluent;

(g) pharmaceutical formulations comprising a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside or a pharmaceutically acceptable salt thereof together with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, optionally in a pharmaceutically acceptable carrier or diluent;

(h) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition;

(i) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent;

(j) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside;

(k) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of a 2' and/or 3'-prodrug of a β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof;

(l) a method for the treatment and/or prophylaxis of a host infected with *Flaviviridae* that includes the administration of an effective amount of the 3',5'-divalyl or diacetyl ester of β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof;

(m) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, and pharmaceutically acceptable salts and compositions thereof for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(n) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(o) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(p) use of a 2' and/or 3'-prodrug of a β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(q) use of the 3',5'-divalyl or diacetyl ester of β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(r) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, and pharmaceutically acceptable salts and compositions thereof in the manufacture of a medicament for treatment and/or prophylaxis of a *Flaviviridae* infection;

(s) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, its pharmaceutically acceptable salt or composition in combination and/or alternation with one or more effective anti-HCV agent in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(t) use of a 2' and/or 3'-prodrug of a 1', 2', 3' or 4'-branched β-D or β-L nucleoside, or its pharmaceutically acceptable salt or composition with the parent of a different a 1', 2', 3' or 4'-branched β-D or β-L nucleoside in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host;

(u) use of a 2' and/or 3'-prodrug of a β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host; and

(v) use of the 3',5'-divalyl or diacetyl ester of β-D-2'-methyl-cytidine, or its pharmaceutically acceptable salt or composition thereof in the manufacture of a medicament for the treatment and/or prophylaxis of a *Flaviviridae* infection in a host.

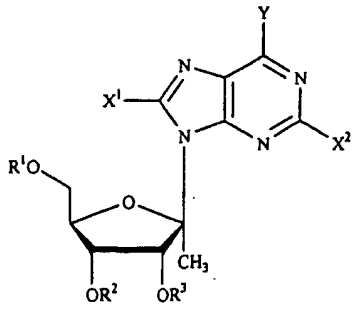
Flaviviridae included within the scope of this invention are discussed generally in *Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, PA, Chapter 31, 1996. In a particular embodiment of the invention, the *Flaviviridae* is HCV. In an alternate embodiment of the invention, the *Flaviviridae* is a

flavivirus or pestivirus. Specific flaviviruses include, without limitation: Absettarov, Alfuy, Apoi, Aroa, Bagaza, Banzi, Bouboui, Bussuquara, Cacipacore, Carey Island, Dakar bat, Dengue 1, Dengue 2, Dengue 3, Dengue 4, Edge Hill, Entebbe bat, Gadgets Gully, Hanzalova, Hypr, Ilheus, Israel turkey meningoencephalitis, Japanese encephalitis, Jugra, Jutiapa, Kadam, Karshi, Kedougou, Kokobera, Koutango, Kumlinge, Kunjin, Kyasanur Forest disease, Langat, Louping ill, Meaban, Modoc, Montana myotis leukoencephalitis, Murray valley encephalitis, Naranjal, Negishi, Ntaya, Omsk hemorrhagic fever, Phnom-Penh bat, Powassan, Rio Bravo, Rocio, Royal Farm, Russian spring-summer encephalitis, Saboya, St. Louis encephalitis, Sal Vieja, San Perlita, Saumarez Reef, Sepik, Sokuluk, Spondweni, Stratford, Tembusu, Tyuleniy, Uganda S, Usutu, Wesselsbron, West Nile, Yaounde, Yellow fever, and Zika.

Pestiviruses included within the scope of this invention are discussed generally in *Fields Virology*, Editors: Fields, B. N., Knipe, D. M., and Howley, P. M., Lippincott-Raven Publishers, Philadelphia, PA, Chapter 33, 1996. Specific pestiviruses include, without limitation: bovine viral diarrhea virus ("BVDV"), classical swine fever virus ("CSFV," also called hog cholera virus), and border disease virus ("BDV").

I. Active Compounds

In a first principal embodiment, a compound of Formula (I), or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(I)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl

(including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula I, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

R^1 is H or phosphate (preferably H);

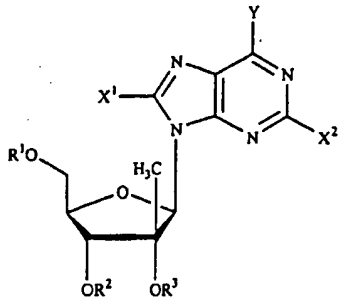
R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is H;

X^2 is H or NH_2; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a second principal embodiment, a compound of Formula II, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(II)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula II, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

R^1 is H or phosphate (preferably H);

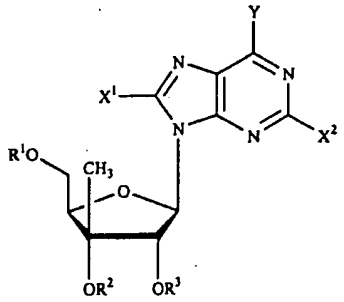
R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is H;

X^2 is H or NH_2; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a third principal embodiment, a compound of Formula III, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(III)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula III, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

R^1 is H or phosphate (preferably H);

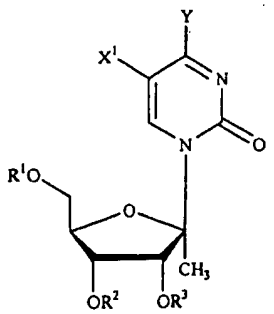
R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is H;

X^2 is H or NH_2; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a fourth principal embodiment, a compound of Formula IV, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(IV)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula IV, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

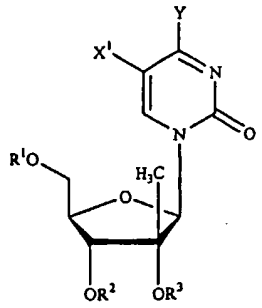
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is H or CH_3; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a fifth principal embodiment, a compound of Formula V, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(V)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl,

arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula V, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

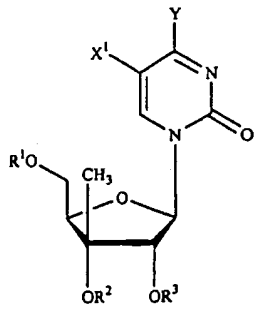
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is H or CH_3; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a sixth principal embodiment, a compound of Formula VI, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(VI)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl

(including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula VI, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

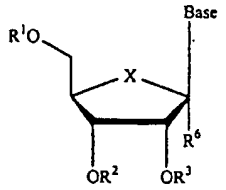
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

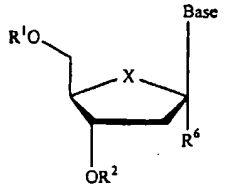
X^1 is H or CH_3; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a seventh principal embodiment, a compound selected from Formulas VII and VIII, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(VII)



(VIII)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula VII or VIII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula VII or VIII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula VII or VIII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

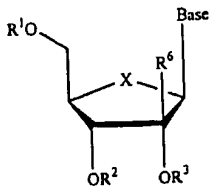
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

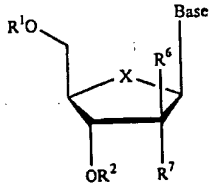
R^6 is alkyl; and

X is O.

In a eighth principal embodiment, a compound of Formulas IX and X, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(IX)



(X)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable

leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

R^7 is hydrogen, OR^3, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula IX or X, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula IX or X, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula IX or X, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

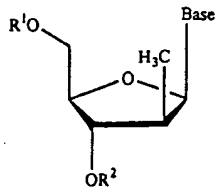
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O.

In another subembodiments, a compound of Formula X(a), or its pharmaceutically acceptable salt or prodrug, is provided:



(X(a))

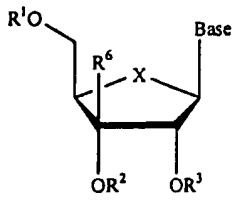
wherein:

Base is a purine or pyrimidine base as defined herein; optionally substituted with an amine or cyclopropyl (e.g., 2-amino, 2,6-diamino or cyclopropyl guanosine); and

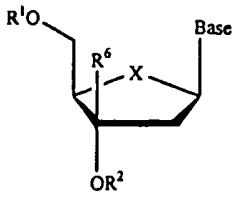
R^1 and R^2 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen.

In a ninth principal embodiment a compound selected from Formulas XI and XII, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XI)



(XII)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula XI or XII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula XI or XII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula XI or XII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

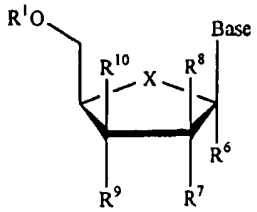
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O.

In a tenth principal embodiment the invention provides a compound of Formula XIII, or a pharmaceutically acceptable salt or prodrug thereof:



(XIII)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl);

alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OR^2, alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are H; and (6) X is O, S, SO_2 or CH_2.

In a fourth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OR^2, alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O.

In a fifth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or

more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O, S, SO_2 or CH_2.

In a sixth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are H; and (6) X is O, S, SO_2, or CH_2.

In a seventh subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino;

wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O.

In a eighth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O, S, SO_2 or CH_2.

In a ninth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O.

In a tenth preferred subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or

pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O.

In an eleventh subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O, S, SO_2 or CH_2.

In a twelfth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O, S, SO_2, or CH_2.

In a thirteenth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O.

In a fourteenth subembodiment, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O.

In other subembodiments, a compound of Formula XIII, or its pharmaceutically acceptable salt or prodrug, is provided in which:

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is guanine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is cytosine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is thymidine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is uracil; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is phosphate; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is ethyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is propyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is butyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

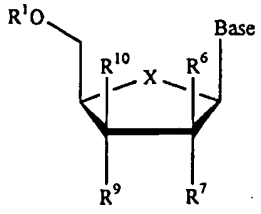
(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydrogen (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is S;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is SO_2;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is CH_2.

In a eleventh principal embodiment the invention provides a compound of Formula XIV, or a pharmaceutically acceptable salt or prodrug thereof:



(XIV)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower

acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^{10} is H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, or R^7 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)-amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H; and (6) X is O, S, SO_2, or CH_2.

In a second subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as

defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)-amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O.

In a fourth subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl

and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H; and (6) X is O, S, SO_2 or CH_2.

In a fifth subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O.

In a sixth subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-

vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H; and (6) X is O.

In a seventh subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H; and (6) X is O.

In an eighth subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)-amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O, S, SO_2, or CH_2.

In a ninth subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H; and (6) X is O, S, SO_2, or CH_2.

In a tenth preferred subembodiment, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^{10} is H; and (6) X is O, S, SO_2, or CH_2.

In even more preferred subembodiments, a compound of Formula XIV, or its pharmaceutically acceptable salt or prodrug, is provided in which:

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is guanine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is cytosine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is thymidine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is uracil; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is phosphate; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is ethyl;(4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is propyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

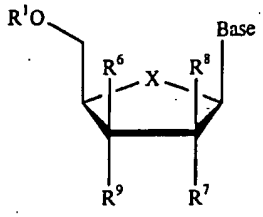
(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is butyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is S;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is SO_2; or

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^{10} is hydrogen; and (7) X is CH_2.

In an twelfth principal embodiment, the invention provides a compound of Formula XV, or a pharmaceutically acceptable salt or prodrug thereof:



(XV)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched

or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 is H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^8 and R^9 can come together to form a pi bond;

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino

acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di-(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(lower-alkyl)amino; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H; and (6) X is O, S, SO_2 or CH_2.

In a fourth subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower

alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O.

In a fifth subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H; and (6) X is O, S, SO_2, or CH_2.

In a sixth subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O.

In a seventh subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently hydrogen, OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H; and (6) X is O.

In an eighth subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H; and (6) X is O, S, SO_2 or CH_2.

In a ninth subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H; and (6) X is O, S, SO_2, or CH_2.

In a tenth preferred subembodiment, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 is H; and (6) X is O.

In even more preferred subembodiments, a compound of Formula XV, or its pharmaceutically acceptable salt or prodrug, is provided in which:

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is guanine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is cytosine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is thymidine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is uracil; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is phosphate; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is ethyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is propyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

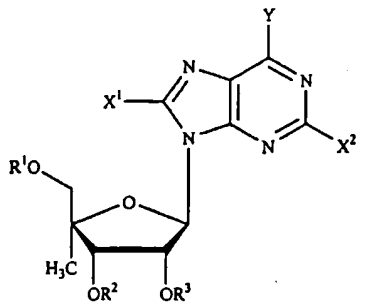
(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is butyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl;(4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is S;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is SO_2; or

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 is hydrogen; and (7) X is CH_2.

In a thirteenth principal embodiment, a compound of Formula XVI, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XVI)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula XVI, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

R^1 is H or phosphate (preferably H);

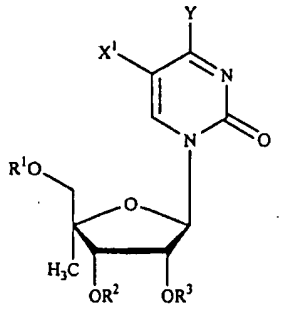
R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

X^1 is H;

X^2 is H or NH_2; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a fourteenth principal embodiment, a compound of Formula XVII, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XVII)

wherein:

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

In a preferred subembodiment, a compound of Formula XVII, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

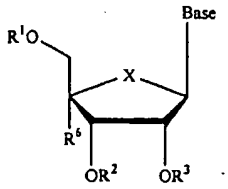
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

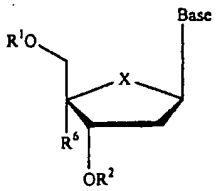
X^1 is H or CH_3; and

Y is hydrogen, bromo, chloro, fluoro, iodo, NH_2 or OH.

In a fifteenth principal embodiment, a compound selected from Formulas XVIII and XIX, or a pharmaceutically acceptable salt or prodrug thereof, is provided:



(XVIII)



(XIX)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1, R^2 and R^3 are independently H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl (including lower alkyl and halogenated alkyl), CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula XVIII and XIX, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula XVIII and XIX, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is an amino acid residue;

R^6 is alkyl; and

X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula XVIII and XIX, or a pharmaceutically acceptable salt or prodrug thereof, is provided wherein:

Base is a purine or pyrimidine base as defined herein;

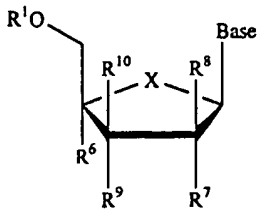
R^1 is H or phosphate (preferably H);

R^2 and R^3 are independently H, phosphate, acyl or an amino acid residue, wherein at least one of R^2 and R^3 is acyl or an amino acid residue;

R^6 is alkyl; and

X is O.

In a sixteenth principal embodiment the invention provides a compound of Formula XX, or a pharmaceutically acceptable salt or prodrug thereof:



(XX)

wherein:

Base is a purine or pyrimidine base as defined herein;

R^1 is H, phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is H or phosphate;

R^6 is alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate (including mono-, di- or triphosphate and a stabilized phosphate); straight chained, branched or cyclic alkyl (including lower alkyl); acyl (including lower acyl); CO-alkyl, CO-aryl, CO-

alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid, including a phospholipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

In a first subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O, S, SO_2 or CH_2.

In a second subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other

pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O, S, SO_2 or CH_2.

In a third subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OR^2, alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are H; and (6) X is O, S, SO_2 or CH_2.

In a fourth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl, alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino,

lower alkylamino, or di(loweralkyl)amino; (4) R^7 and R^9 are independently OR^2, alkyl, alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O.

In a fifth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O, S, SO_2 or CH_2.

In a sixth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are H; and (6) X is O, S, SO_2, or CH_2.

In a seventh subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O.

In a eighth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O, S, SO_2 or CH_2.

In a ninth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including

methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine; and (6) X is O.

In a tenth preferred subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino, or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O.

In an eleventh subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, hydroxy, O-alkyl, O-alkenyl, chloro, bromo, fluoro, iodo, NO_2, amino, lower alkylamino or di(loweralkyl)amino; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O, S, SO_2 or CH_2.

In a twelfth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O, S, SO_2, or CH_2.

In a thirteenth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OH or OR^2, wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine, or iodine; and (6) X is O.

In a fourteenth subembodiment, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which: (1) Base is a purine or pyrimidine base as defined herein; (2) R^1 is independently H or phosphate; (3) R^6 is alkyl; (4) R^7 and R^9 are independently OR^2, alkyl (including lower alkyl), alkenyl, alkynyl, Br-vinyl, O-alkenyl, chlorine, bromine, iodine, NO_2, amino, lower alkylamino or di(loweralkyl)amino; wherein at least one of R^7 and R^9 is OR^2 (and R^2 is not hydrogen); (5) R^8 and R^{10} are hydrogen; and (6) X is O.

In even more preferred subembodiments, a compound of Formula XX, or its pharmaceutically acceptable salt or prodrug, is provided in which:

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is guanine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is cytosine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is thymidine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is uracil; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is phosphate; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is ethyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is propyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is butyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydrogen (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is O;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is S;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is SO_2;

(1) Base is adenine; (2) R^1 is hydrogen; (3) R^6 is methyl; (4) R^7 is hydroxyl (5) R^9 is L-valinyl; (6) R^8 and R^{10} are hydrogen; and (7) X is CH_2.

Stereochemistry

It is appreciated that nucleosides of the present invention have several chiral centers and may exist in and be isolated in optically active and racemic forms. Some compounds may exhibit polymorphism. It is to be understood that the present invention encompasses any racemic, optically-active, diastereomeric, polymorphic, or stereoisomeric form, or mixtures thereof, of a compound of the invention, which possess the useful properties described herein. It being well known in the art how to prepare optically active forms (for example, by resolution of the racemic form by recrystallization techniques, by synthesis from optically-active starting materials, by chiral synthesis, or by chromatographic separation using a chiral stationary phase).

In particular, since the 1' and 4' carbons of the nucleoside are chiral, their nonhydrogen substituents (the base and the CHOR groups, respectively) can be either cis (on the same side) or trans (on opposite sides) with respect to the sugar ring system. The four

optical isomers therefore are represented by the following configurations (when orienting the sugar moiety in a horizontal plane such that the oxygen atom is in the back): cis (with both groups "up", which corresponds to the configuration of naturally occurring ß-D nucleosides), cis (with both groups "down", which is a nonnaturally occurring ß-L configuration), trans (with the C2' substituent "up" and the C4' substituent "down"), and trans (with the C2' substituent "down" and the C4' substituent "up"). The "D-nucleosides" are cis nucleosides in a natural configuration and the "L-nucleosides" are cis nucleosides in the non-naturally occurring configuration.

Likewise, most amino acids are chiral (designated as L or D, wherein the L enantiomer is the naturally occurring configuration) and can exist as separate enantiomers.

Examples of methods to obtain optically active materials are known in the art, and include at least the following.

i) physical separation of crystals - a technique whereby macroscopic crystals of the individual enantiomers are manually separated. This technique can be used if crystals of the separate enantiomers exist, i.e., the material is a conglomerate, and the crystals are visually distinct;

ii) simultaneous crystallization - a technique whereby the individual enantiomers are separately crystallized from a solution of the racemate, possible only if the latter is a conglomerate in the solid state;

iii) enzymatic resolutions - a technique whereby partial or complete separation of a racemate by virtue of differing rates of reaction for the enantiomers with an enzyme;

iv) enzymatic asymmetric synthesis - a synthetic technique whereby at least one step of the synthesis uses an enzymatic reaction to obtain an enantiomerically pure or enriched synthetic precursor of the desired enantiomer;

v) chemical asymmetric synthesis - a synthetic technique whereby the desired enantiomer is synthesized from an achiral precursor under conditions that produce asymmetry (i.e., chirality) in the product, which may be achieved using chiral catalysts or chiral auxiliaries;

vi) diastereomer separations - a technique whereby a racemic compound is reacted with an enantiomerically pure reagent (the chiral auxiliary) that converts the individual enantiomers to diastereomers. The resulting diastereomers are then separated by chromatography or crystallization by virtue of their now more distinct structural differences and the chiral auxiliary later removed to obtain the desired enantiomer;

vii) first- and second-order asymmetric transformations - a technique whereby diastereomers from the racemate equilibrate to yield a preponderance in solution of the diastereomer from the desired enantiomer or where preferential crystallization of the diastereomer from the desired enantiomer perturbs the equilibrium such that eventually in principle all the material is converted to the crystalline diastereomer from the desired enantiomer. The desired enantiomer is then released from the diastereomer;

viii) kinetic resolutions - this technique refers to the achievement of partial or complete resolution of a racemate (or of a further resolution of a partially resolved compound) by virtue of unequal reaction rates of the enantiomers with a chiral, non-racemic reagent or catalyst under kinetic conditions;

ix) enantiospecific synthesis from non-racemic precursors - a synthetic technique whereby the desired enantiomer is obtained from non-chiral starting materials and where the stereochemical integrity is not or is only minimally compromised over the course of the synthesis;

x) chiral liquid chromatography - a technique whereby the enantiomers of a racemate are separated in a liquid mobile phase by virtue of their differing interactions with a stationary phase. The stationary phase can be made of chiral material or the mobile phase can contain an additional chiral material to provoke the differing interactions;

xi) chiral gas chromatography - a technique whereby the racemate is volatilized and enantiomers are separated by virtue of their differing interactions in the gaseous mobile phase with a column containing a fixed non-racemic chiral adsorbent phase;

xii) extraction with chiral solvents - a technique whereby the enantiomers are separated by virtue of preferential dissolution of one enantiomer into a particular chiral solvent;

xiii) transport across chiral membranes - a technique whereby a racemate is placed in contact with a thin membrane barrier. The barrier typically separates two miscible fluids, one containing the racemate, and a driving force such as concentration or pressure differential causes preferential transport across the membrane barrier. Separation occurs as a result of the non-racemic chiral nature of the membrane which allows only one enantiomer of the racemate to pass through.

II. Definitions

The term "alkyl", as used herein, unless otherwise specified, refers to a saturated straight, branched, or cyclic, primary, secondary, or tertiary hydrocarbon of typically C_1 to C_{10}, and specifically includes methyl, CF_3, CCl_3, $CFCl_2$, CF_2Cl, ethyl, CH_2CF_3, CF_2CF_3, propyl, isopropyl, cyclopropyl, butyl, isobutyl, secbutyl, *t*-butyl, pentyl, cyclopentyl, isopentyl, neopentyl, hexyl, isohexyl, cyclohexyl, cyclohexylmethyl, 3-methylpentyl, 2,2-dimethylbutyl, and 2,3-dimethylbutyl. The term includes both substituted and unsubstituted alkyl groups, and particularly includes halogenated alkyl groups, and even more particularly fluorinated alkyl groups. Non-limiting examples of moieties with which the alkyl group can be substituted are selected from the group consisting of halogen (fluoro, chloro, bromo or iodo), hydroxyl, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, or phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in Greene, *et al.*, Protective Groups in Organic Synthesis, John Wiley and Sons, Second Edition, 1991, hereby incorporated by reference.

The term "lower alkyl", as used herein, and unless otherwise specified, refers to a C_1 to C_4 saturated straight, branched, or if appropriate, a cyclic (for example, cyclopropyl) alkyl group, including both substituted and unsubstituted moieties.

The term "alkylamino" or "arylamino" refers to an amino group that has one or two alkyl or aryl substituents, respectively. Unless otherwise specifically stated in this

application, when alkyl is a suitable moiety, lower alkyl is preferred. Similarly, when alkyl or lower alkyl is a suitable moiety, unsubstituted alkyl or lower alkyl is preferred.

The term "protected" as used herein and unless otherwise defined refers to a group that is added to an oxygen, nitrogen, or phosphorus atom to prevent its further reaction or for other purposes. A wide variety of oxygen and nitrogen protecting groups are known to those skilled in the art of organic synthesis.

The term "aryl", as used herein, and unless otherwise specified, refers to phenyl, biphenyl, or naphthyl, and preferably phenyl. The term includes both substituted and unsubstituted moieties. The aryl group can be substituted with any described moiety, including, but not limited to, one or more moieties selected from the group consisting of halogen (fluoro, chloro, bromo or iodo), hydroxyl, amino, alkylamino, arylamino, alkoxy, aryloxy, nitro, cyano, sulfonic acid, sulfate, phosphonic acid, phosphate, or phosphonate, either unprotected, or protected as necessary, as known to those skilled in the art, for example, as taught in Greene, et al., *Protective Groups in Organic Synthesis,* John Wiley and Sons, Second Edition, **1991.**

The term "alkaryl" or "alkylaryl" refers to an alkyl group with an aryl substituent. The term aralkyl or arylalkyl refers to an aryl group with an alkyl substituent.

The term "halo", as used herein, includes chloro, bromo, iodo, and fluoro.

The term "purine" or "pyrimidine" base includes, but is not limited to, adenine, N^6-alkylpurines, N^6-acylpurines (wherein acyl is C(O)(alkyl, aryl, alkylaryl, or arylalkyl), N^6-benzylpurine, N^6-halopurine, N^6-vinylpurine, N^6-acetylenic purine, N^6-acyl purine, N^6-hydroxyalkyl purine, N^6-alkylaminopurine, N^6-thioalkyl purine, N^2-alkylpurines, N^2-alkyl-6-thiopurines, thymine, cytosine, 5-fluorocytosine, 5-methylcytosine, 6-azapyrimidine, including 6-azacytosine, 2- and/or 4-mercaptopyrmidine, uracil, 5-halouracil, including 5-fluorouracil, C^5-alkylpyrimidines, C^5-benzylpyrimidines, C^5-halopyrimidines, C^5-vinylpyrimidine, C^5-acetylenic pyrimidine, C^5-acyl pyrimidine, C^5-hydroxyalkyl purine, C^5-amidopyrimidine, C^5-cyanopyrimidine, ,C^5-iodopyrimidine, C^6-iodo-pyrimidine, C^5-Br-vinyl pyrimidine, C^6-Br-vinyl pyrimidine, C^5-nitropyrimidine, C^5-amino-pyrimidine, N^2-alkylpurines, N^2-alkyl-6-thiopurines, 5-azacytidinyl, 5-azauracilyl, triazolopyridinyl, imidazolopyridinyl, pyrrolopyrimidinyl, and pyrazolopyrimidinyl. Purine bases include, but are not limited to, guanine, adenine, hypoxanthine, 2,6-diaminopurine, and 6-chloropurine. Functional oxygen and nitrogen groups on the base can be protected as necessary or desired.

Suitable protecting groups are well known to those skilled in the art, and include trimethylsilyl, dimethylhexylsilyl, *t*-butyldimethylsilyl, and *t*-butyldiphenylsilyl, trityl, alkyl groups, and acyl groups such as acetyl and propionyl, methanesulfonyl, and p-toluenesulfonyl.

The term "acyl" or "O-linked ester" refers to a group of the formula C(O)R', wherein R' is an straight, branched, or cyclic alkyl (including lower alkyl), carboxylate reside of amino acid, aryl including phenyl, alkaryl, aralkyl including benzyl, alkoxyalkyl including methoxymethyl, aryloxyalkyl such as phenoxymethyl; or substituted alkyl (including lower alkyl), aryl including phenyl optionally substituted with chloro, bromo, fluoro, iodo, C_1 to C_4 alkyl or C_1 to C_4 alkoxy, sulfonate esters such as alkyl or aralkyl sulphonyl including methanesulfonyl, the mono, di or triphosphate ester, trityl or monomethoxy-trityl, substituted benzyl, alkaryl, aralkyl including benzyl, alkoxyalkyl including methoxymethyl, aryloxyalkyl such as phenoxymethyl. Aryl groups in the esters optimally comprise a phenyl group. In particular, acyl groups include acetyl, trifluoroacetyl, methylacetyl, cyclpropylacetyl, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, 2-acetoxy-2-phenylacetyl, diphenylacetyl, α-methoxy-α-trifluoromethyl-phenylacetyl, bromoacetyl, 2-nitro-benzeneacetyl, 4-chloro-benzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, methoxyacetyl, 2-thiopheneacetyl, chlorosulfonylacetyl, 3-methoxyphenylacetyl, phenoxyacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, 7H-dodecafluoro-heptanoyl, perfluoro-heptanoyl, 7H-dodeca-fluoroheptanoyl, 7-chlorododecafluoro-heptanoyl, 7-chloro-dodecafluoro-heptanoyl, 7H-dodecafluoroheptanoyl, 7H-dodeca-fluoroheptanoyl, nona-fluoro-3,6-dioxa-heptanoyl, nonafluoro-3,6-dioxaheptanoyl, perfluoroheptanoyl, methoxybenzoyl, methyl 3-amino-5-phenylthiophene-2-carboxyl, 3,6-dichloro-2-methoxy-benzoyl, 4-(1,1,2,2-tetrafluoro-ethoxy)-benzoyl, 2-bromo-propionyl, omega-aminocapryl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, O-acetylmandelyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6-pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, perfluorocyclohexyl carboxyl, 4-methylbenzoyl, chloromethyl isoxazolyl carbonyl, perfluorocyclohexyl carboxyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 1-pyrrolidinecarbonyl, 4-phenylbenzoyl.

The term "amino acid" includes naturally occurring and synthetic α, β γ or δ amino acids, and includes but is not limited to, amino acids found in proteins, *i.e.* glycine, alanine,

valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine. In a preferred embodiment, the amino acid is in the L-configuration. Alternatively, the amino acid can be a derivative of alanyl, valinyl, leucinyl, isoleuccinyl, prolinyl, phenylalaninyl, tryptophanyl, methioninyl, glycinyl, serinyl, threoninyl, cysteinyl, tyrosinyl, asparaginyl, glutaminyl, aspartoyl, glutaroyl, lysinyl, argininyl, histidinyl, β-alanyl, β-valinyl, β-leucinyl, β-isoleuccinyl, β-prolinyl, β-phenylalaninyl, β-tryptophanyl, β-methioninyl, β-glycinyl, β-serinyl, β-threoninyl, β-cysteinyl, β-tyrosinyl, β-asparaginyl, β-glutaminyl, β-aspartoyl, β-glutaroyl, β-lysinyl, β-argininyl or β-histidinyl.

As used herein, the term "substantially free of" or "substantially in the absence of" refers to a nucleoside composition that includes at least 85 or 90% by weight, preferably 95%, 98 % , 99% or 100% by weight, of the designated enantiomer of that nucleoside. In a preferred embodiment, in the methods and compounds of this invention, the compounds are substantially free of enantiomers.

Similarly, the term "isolated" refers to a nucleoside composition that includes at least 85, 90%, 95%, 98%, 99% to 100% by weight, of the nucleoside, the remainder comprising other chemical species or enantiomers.

The term "host", as used herein, refers to an unicellular or multicellular organism in which the virus can replicate, including cell lines and animals, and preferably a human. Alternatively, the host can be carrying a part of the *Flaviviridae* viral genome, whose replication or function can be altered by the compounds of the present invention. The term host specifically refers to infected cells, cells transfected with all or part of the *Flaviviridae* genome and animals, in particular, primates (including chimpanzees) and humans. In most animal applications of the present invention, the host is a human patient. Veterinary applications, in certain indications, however, are clearly anticipated by the present invention (such as chimpanzees).

The term "pharmaceutically acceptable salt or prodrug" is used throughout the specification to describe any pharmaceutically acceptable form (such as an ester, phosphate ester, salt of an ester or a related group) of a nucleoside compound which, upon administration to a patient, provides the nucleoside compound. Pharmaceutically acceptable salts include those derived from pharmaceutically acceptable inorganic or organic bases and acids. Suitable salts include those derived from alkali metals such as potassium and sodium,

alkaline earth metals such as calcium and magnesium, among numerous other acids well known in the pharmaceutical art. Pharmaceutically acceptable prodrugs refer to a compound that is metabolized, for example hydrolyzed or oxidized, in the host to form the compound of the present invention. Typical examples of prodrugs include compounds that have biologically labile protecting groups on a functional moiety of the active compound. Prodrugs include compounds that can be oxidized, reduced, aminated, deaminated, hydroxylated, dehydroxylated, hydrolyzed, dehydrolyzed, alkylated, dealkylated, acylated, deacylated, phosphorylated, dephosphorylated to produce the active compound. The compounds of this invention possess antiviral activity against a *Flaviviridae*, or are metabolized to a compound that exhibits such activity.

III. Prodrugs and Derivatives

Pharmaceutically Aceptable Salts

In cases where compounds are sufficiently basic or acidic to form stable nontoxic acid or base salts, administration of the compound as a pharmaceutically acceptable salt may be appropriate. Examples of pharmaceutically acceptable salts are organic acid addition salts formed by addition of acids, which form a physiological acceptable anion, for example, tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorate, α-ketoglutarate, α-glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, and salicylate. Suitable inorganic salts may also be formed, including, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate and phosphoric acid. In a preferred embodiment, the salt is a mono- or di-hydrochloride salt.

Pharmaceutically acceptable salts may be obtained using standard procedures well known in the art, for example by reacting a sufficiently basic compound such as an amine with a suitable acid affording a physiologically acceptable anion. Alkali metal (for example, sodium, potassium or lithium) or alkaline earth metal (for example calcium) salts of carboxylic acids can also be made. In one embodiment, the salt is a hydrochloride salt of the compound. In a further embodiment, the pharmaceutically acceptable salt is a dihydrochloride salt.

Nucleotide Prodrug Formulations

The nucleosides described herein can be administered as a nucleotide prodrug to increase the activity, bioavailability, stability or otherwise alter the properties of the nucleoside. A number of nucleotide prodrug ligands are known. In general, alkylation, acylation or other lipophilic modification of the mono-, di- or triphosphate of the nucleoside reduces polarity and allows passage into cells. Examples of substituent groups that can replace one or more hydrogens on the phosphate moiety are alkyl, aryl, steroids, carbohydrates, including sugars, 1,2-diacylglycerol and alcohols.

In an alternative embodiment, the compound is administered as a phosphonate, phosphorothioate or SATE derivative.

Many are described in R. Jones and N. Bischoferger, *Antiviral Research*, 1995, *27*:1-17. Any of these can be used in combination with the disclosed nucleosides to achieve a desired effect. Nonlimiting examples of U.S. patents that disclose suitable lipophilic substituents that can be covalently incorporated into the nucleoside, preferably at the 5'-OH position of the nucleoside or lipophilic preparations, include U.S. Patent Nos. 5,149,794 (Sep. 22, 1992, Yatvin *et al.*); 5,194,654 (Mar. 16, 1993, Hostetler *et al.*, 5,223,263 (June 29, 1993, Hostetler *et al.*); 5,256,641 (Oct. 26, 1993, Yatvin *et al.*); 5,411,947 (May 2, 1995, Hostetler *et al.*); 5,463,092 (Oct. 31, 1995, Hostetler *et al.*); 5,543,389 (Aug. 6, 1996, Yatvin *et al.*); 5,543,390 (Aug. 6, 1996, Yatvin *et al.*); 5,543,391 (Aug. 6, 1996, Yatvin *et al.*); and 5,554,728 (Sep. 10, 1996; Basava *et al.*), all of which are incorporated herein by reference. Foreign patent applications that disclose lipophilic substituents that can be attached to the nucleosides of the present invention, or lipophilic preparations, include WO 89/02733, W0 90/00555, W0 91/16920, W0 91/18914, W0 93/00910, W0 94/26273, W0 96/15132, EP 0 350 287, EP 93917054.4, and W0 91/19721.

The active nucleoside can also be provided as a 2', 3' and/or 5'-phosphoether lipid or a 2', 3' and/or 5'-ether lipid, as disclosed in the following references, which are incorporated by reference herein: Kucera, L.S., N. Iyer, et al. **1990** *AIDS Res. Hum. Retro Viruses.* **6**:491-501; Piantadosi, C., J. Marasco C.J., et al. **1991** *J. Med. Chem.* **34**:1408.1414; Hosteller, K.Y., D.D. Richman, et al. **1992** *Antimicrob. Agents Chemother.* **36**:2025.2029; Hosetler, K.Y., L.M. Stuhmiller, **1990**. *J. Biol. Chem.* 265:61127.

Nonlimiting examples of U.S. patents that disclose suitable lipophilic substituents that can be covalently incorporated into the nucleoside, preferably at the 2', 3' and/or 5'-OH

position of the nucleoside or lipophilic preparations, include U.S. Patent Nos. 5,149,794 (Sep. 22, 1992, Yatvin *et al.*); 5,194,654 (Mar. 16, 1993, Hostetler *et al.*, 5,223,263 (June 29, 1993, Hostetler *et al.*); 5,256,641 (Oct. 26, 1993, Yatvin *et al.*); 5,411,947 (May 2, 1995, Hostetler *et al.*); 5,463,092 (Oct. 31, 1995, Hostetler *et al.*); 5,543,389 (Aug. 6, 1996, Yatvin *et al.*); 5,543,390 (Aug. 6, 1996, Yatvin *et al.*); 5,543,391 (Aug. 6, 1996, Yatvin *et al.*); and 5,554,728 (Sep. 10, 1996; Basava *et al.*), all of which are incorporated herein by reference. Foreign patent applications that disclose lipophilic substituents that can be attached to the nucleosides of the present invention, or lipophilic preparations, include WO 89/02733, W0 90/00555, W0 91/16920, W0 91/18914, W0 93/00910, W0 94/26273, W0 96/15132, EP 0 350 287, EP 93917054.4, and W0 91/19721.

Aryl esters, especially phenyl esters, are also provided. Nonlimiting examples are disclosed in DeLambert et al., *J. Med. Chem.* 37: 498 (1994). Phenyl esters containing a carboxylic ester ortho to the phosphate are also provided. Khamnei and Torrence, *J. Med. Chem.;* 39:4109-4115 (1996). In particular, benzyl esters, which generate the parent compound, in some cases using substituents at the ortho- or para-position to accelerate hydrolysis, are provided. Examples of this class of prodrugs are described by Mitchell et al., *J. Chem. Soc. Perkin Trans.* I 2345 (1992); Brook, et al. WO 91/19721; and Glazier et al. WO 91/19721.

Cyclic phosphonate esters are also provided. Nonlimiting examples are disclosed in Hunston et al., *J. Med. Chem.* 27: 440-444 (1984) and Starrett et al. *J. Med. Chem.* 37: 1857-1864 (1994). Additionally, cyclic 3',5'-phosphate esters are provided. Nonlimiting examples are disclosed in Meier et al. *J. Med. Chem.* 22: 811-815 (1979). Cyclic 1',3'-propanyl phosphonate and phosphate esters, such as ones containing a fused aryl ring, i.e. the cyclosaligenyl ester, are also provided (Meier et al., *Bioorg. Med. Chem. Lett.* 7: 99-104 (1997)). Unsubstituted cyclic 1',3'-propanyl esters of the monophosphates are also provided (Farquhar et al., *J. Med. Chem.* 26: 1153 (1983); Farquhar et al., *J. Med. Chem.* 28: 1358 (1985)) were prepared. In addition, cyclic 1',3'-propanyl esters substituted with a pivaloyloxy methyloxy group at C-1' are provided (Freed et al., *Biochem. Pharmac.* 38: 3193 (1989); Biller et al., U.S. Pat. No. 5,157,027).

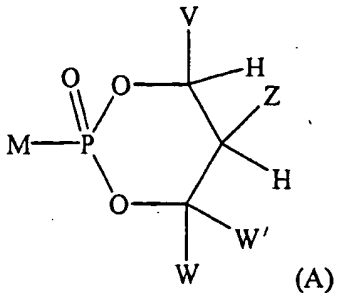
Cyclic phosphoramidates are known to cleave in vivo by an oxidative mechanism. Therefore, in one embodiment of the present invention, a variety of substituted 1',3' propanyl cyclic phosphoramidates are provided. Non-limiting examples are disclosed by Zon, Progress in Med. Chem. 19, 1205 (1982). Additionally, a number of 2'- and 3'-substituted

proesters are provided. 2'-Substituents include methyl, dimethyl, bromo, trifluoromethyl, chloro, hydroxy, and methoxy; 3'-substituents including phenyl, methyl, trifluoromethyl, ethyl, propyl, i-propyl, and cyclohexyl. A variety of 1'-substituted analogs are also provided.

Cyclic esters of phosphorus-containing compounds are also provided. Non-limiting examples are described in the following:

- [1] di and tri esters of phosphoric acids as reported in Nifantyev et al., *Phosphorus, Sulfur Silicon and Related Eelements,* 113: 1 (1996); Wijnberg et al., EP-180276 A1;
- [2] phosphorus (III) acid esters. Kryuchkov et al., Izv. Akad. Nauk *SSSR, Ser. Khim.* 6: 1244 (1987). Some of the compounds were claimed to be useful for the asymmetric synthesis of L-Dopa precursors. Sylvain et al., DE3512781 A1;
- [3] phosphoramidates. Shih et al., Bull. *Inst. Chem. Acad. Sin,* 41: 9 (1994); Edmundson et al., *J. Chem. Res. Synop.* 5: 122 (1989); and
- [4] phosphonates. Neidlein et al., *Heterocycles* 35: 1185 (1993).

Further, nonlimiting examples of U.S. and International Patent Applications that disclose suitable cyclic phosphoramidate prodrugs include U.S. Patent No. 6,312,662; WO 99/45016; WO 00/52015; WO 01/47935; and WO 01/18013 to Erion, et al. from Metabasis Therapeutics, Inc. Specifically, prodrugs of Formula A below are provided:



(A)

wherein:

- together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, optionally 1 heteroatom, substituted with hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy attached to a carbon atom that is three atoms from both O groups attached to the phosphorus; or

- together V and Z are connected via an additional 3-5 atoms to form a cyclic group, optionally containing 1 heteroatom, that is fused to an aryl group at the beta and gamma position to the O attached to the phosphorus;
- together V and W are connected via an additional 3 carbon atoms to form an optionally substituted cyclic group containing 6 carbon atoms and substituted with one substituent selected from the group consisting of hydroxy, acyloxy, alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxycarbonyloxy, attached to one of said carbon atoms that is three atoms from an O attached to the phosphorus;
- together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
- together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
- Z is selected from the group consisting of $-CHR^2$ OH, $-CHR^2$ $OC(O)R^3$, $-CHR^2$ $OC(S)R^3$, $-CHR^2$ $OC(S)OR^3$, $-CHR^2$ $OC(O)SR^3$, $-CHR^2$ OCO_2 R^3, $-OR^2$, $-SR^2$, $-CHR^2$ N_3, $-CH^2$ aryl, -CH(aryl)OH, $-CH(CH=CR^2_2)OH$, $-CH(C.ident.CR^2)OH$, $-R^2$, $-NR^2_2$, $-OCOR^3$, $-OCO_2$ R^3, $-SCOR^3$, $-SCO_2$ R^3, $-NHCOR^2$, $-NHCO_2$ R^3, $-CH_2$ NHaryl, $-(CH_2)_p$ $-OR^{12}$, and $-(CH_2)_p$ $-SR^{12}$;
- p is an integer 2 or 3;
- with the provisos that:
  - a) V, Z, W, W' are not all -H; and
  - b) when Z is $-R^2$, then at least one of V, W, and W' is not -H, alkyl, aralkyl, or alicyclic;
- R^2 is selected from the group consisting of R^3 and -H;
- R^3 is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl;
- R^{12} is selected from the group consisting of -H, and lower acyl;
- M is the biologically active agent, and that is attached to the phosphorus in Formula A via the 2', 3' and/or 5'-hydroxyl.

IV. Combination or Alternation Therapy

The active compounds of the present invention can be administered in combination or alternation with another anti-flavivirus or pestivirus agent, or in particular an anti-HCV agent. In combination therapy, effective dosages of two or more agents are administered together, whereas in alternation or sequential-step therapy, an effective dosage of each agent is administered serially or sequentially. The dosages given will depend on absorption, inactivation and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens and schedules should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions. In preferred embodiments, an anti-HCV (or anti-pestivirus or anti-flavivirus) compound that exhibits an EC_{50} of 10-15 μM, or preferably less than 1-5 μM, is desirable.

It has been recognized that drug-resistant variants of flaviviruses, pestiviruses or HCV can emerge after prolonged treatment with an antiviral agent. Drug resistance most typically occurs by mutation of a gene that encodes for an enzyme used in viral replication. The efficacy of a drug against the viral infection can be prolonged, augmented, or restored by administering the compound in combination or alternation with a second, and perhaps third, antiviral compound that induces a different mutation from that caused by the principle drug. Alternatively, the pharmacokinetics, biodistribution or other parameter of the drug can be altered by such combination or alternation therapy. In general, combination therapy is typically preferred over alternation therapy because it induces multiple simultaneous stresses on the virus.

Any of the viral treatments described in the Background of the Invention can be used in combination or alternation with the compounds described in this specification. Nonlimiting examples include:

1) Protease inhibitors

Examples include substrate-based NS3 protease inhibitors (Attwood et al., Antiviral peptide derivatives, PCT WO 98/22496, 1998; Attwood et al., *Antiviral Chemistry and Chemotherapy* 1999, 10, 259-273; Attwood et al., Preparation and use of amino acid derivatives as anti-viral agents, German Patent Pub. DE 19914474; Tung et al. Inhibitors of serine proteases, particularly hepatitis C virus NS3 protease, PCT WO 98/17679), including

alphaketoamides and hydrazinoureas, and inhibitors that terminate in an electrophile such as a boronic acid or phosphonate (Llinas-Brunet et al, Hepatitis C inhibitor peptide analogues, PCT WO 99/07734); Non-substrate-based NS3 protease inhibitors such as 2,4,6-trihydroxy-3-nitro-benzamide derivatives (Sudo K. et al., *Biochemical and Biophysical Research Communications,* 1997, 238, 643-647; Sudo K. et al. *Antiviral Chemistry and Chemotherapy,* 1998, 9, 186), including RD3-4082 and RD3-4078, the former substituted on the amide with a 14 carbon chain and the latter processing a para-phenoxyphenyl group; and Sch 68631, a phenanthrenequinone, an HCV protease inhibitor (Chu M. et al., *Tetrahedron Letters* 37:7229-7232, 1996).

Sch 351633, isolated from the fungus Penicillium griseofulvum, was identified as a protease inhibitor (Chu M. et al., *Bioorganic and Medicinal Chemistry Letters* 9:1949-1952). Eglin c, isolated from leech, is a potent inhibitor of several serine proteases such as S. griseus proteases A and B, α-chymotrypsin, chymase and subtilisin. Qasim M.A. et al., *Biochemistry* 36:1598-1607, 1997.

U.S. patents disclosing protease inhibitors for the treatment of HCV include, for example, U.S. Patent No. 6,004,933 to Spruce et al. which discloses a class of cysteine protease inhibitors for inhibiting HCV endopeptidase 2; U.S. Patent No. 5,990,276 to Zhang et al. which discloses synthetic inhibitors of hepatitis C virus NS3 protease; U.S. Patent No. 5,538,865 to Reyes et a; WO 02/008251 to Corvas International, Inc, and WO 02/08187 and WO 02/008256 to Schering Corporation. HCV inhibitor tripeptides are disclosed in US Patent Nos. 6,534,523, 6,410,531, and 6,420,380 to Boehringer Ingelheim and WO 02/060926 to Bristol Myers Squibb. Diaryl peptides as NS3 serine protease inhibitors of HCV are disclosed in WO 02/48172 to Schering Corporation. Imidazoleidinones as NS3 serine protease inhibitors of HCV are disclosed in WO 02/08198 to Schering Corporation and WO 02/48157 to Bristol Myers Squibb. WO 98/17679 to Vertex Pharmaceuticals and WO 02/48116 to Bristol Myers Squibb also disclose HCV protease inhibitors.

2) Thiazolidine derivatives which show relevant inhibition in a reverse-phase HPLC assay with an NS3/4A fusion protein and NS5A/5B substrate (Sudo K. et al., *Antiviral Research,* 1996, 32, 9-18), especially compound RD-1-6250, possessing a fused cinnamoyl moiety substituted with a long alkyl chain, RD4 6205 and RD4 6193;

3) Thiazolidines and benzanilides identified in Kakiuchi N. et al. J. EBS Letters 421, 217-220; Takeshita N. et al. *Analytical Biochemistry,* 1997, 247, 242-246;

4) A phenan-threnequinone possessing activity against protease in a SDS-PAGE and autoradiography assay isolated from the fermentation culture broth of Streptomyces sp., Sch 68631 (Chu M. et al., *Tetrahedron Letters,* 1996, 37, 7229-7232), and Sch 351633, isolated from the fungus Penicillium griseofulvum, which demonstrates activity in a scintillation proximity assay (Chu M. et al., *Bioorganic and Medicinal Chemistry Letters* 9, 1949-1952);

5) Helicase inhibitors (Diana G.D. et al., Compounds, compositions and methods for treatment of hepatitis C, U.S. Pat. No. 5,633,358; Diana G.D. et al., Piperidine derivatives, pharmaceutical compositions thereof and their use in the treatment of hepatitis C, PCT WO 97/36554);

6) Nucleotide polymerase inhibitors and gliotoxin (Ferrari R. et al. *Journal of Virology*, 1999, 73, 1649-1654), and the natural product cerulenin (Lohmann V. et al., *Virology*, 1998, 249, 108-118);

7) Antisense phosphorothioate oligodeoxynucleotides (S-ODN) complementary to sequence stretches in the 5' non-coding region (NCR) of the virus (Alt M. et al., *Hepatology*, 1995, 22, 707-717), or nucleotides 326-348 comprising the 3' end of the NCR and nucleotides 371-388 located in the core coding region of the HCV RNA (Alt M. et al., *Archives of Virology*, 1997, 142, 589-599; Galderisi U. et al., *Journal of Cellular Physiology,* 1999, 181, 251-257);

8) Inhibitors of IRES-dependent translation (Ikeda N et al., Agent for the prevention and treatment of hepatitis C, Japanese Patent Pub. JP-08268890; Kai

Y. et al. Prevention and treatment of viral diseases, Japanese Patent Pub. JP-10101591);

9) Ribozymes, such as nuclease-resistant ribozymes (Maccjak, D. J. et al., *Hepatology* 1999, 30, abstract 995) and those disclosed in U.S. Patent No. 6,043,077 to Barber et al., and U.S. Patent Nos. 5,869,253 and 5,610,054 to Draper et al.; and

10) Nucleoside analogs have also been developed for the treatment of Flaviviridae infections.

11) Any of the compounds described by Idenix Pharmaceuticals in International Publication Nos. WO 01/90121 and WO 01/92282; .

12) Other patent applications disclosing the use of certain nucleoside analogs to treat hepatitis C virus include: PCT/CA00/01316 (WO 01/32153; filed November 3, 2000) and PCT/CA01/00197 (WO 01/60315; filed February 19, 2001) filed by BioChem Pharma, Inc. (now Shire Biochem, Inc.); PCT/US02/01531 (WO 02/057425; filed January 18, 2002) and PCT/US02/03086 (WO 02/057287; filed January 18, 2002) filed by Merck & Co., Inc., PCT/EP01/09633 (WO 02/18404; published August 21, 2001) filed by Roche, and PCT Publication Nos. WO 01/79246 (filed April 13, 2001), WO 02/32920 (filed October 18, 2001) and WO 02/48165 by Pharmasset, Ltd.

13) PCT Publication No. WO 99/43691 to Emory University, entitled "2'-Fluoronucleosides" discloses the use of certain 2'-fluoronucleosides to treat HCV.

14) Other miscellaneous compounds including 1-amino-alkylcyclohexanes (U.S. Patent No. 6,034,134 to Gold et al.), alkyl lipids (U.S. Pat. No. 5,922,757 to

Chojkier et al.), vitamin E and other antioxidants (U.S. Pat. No. 5,922,757 to Chojkier et al.), squalene, amantadine, bile acids (U.S. Pat. No. 5,846,964 to Ozeki et al.), N-(phosphonoacetyl)-L-aspartic acid, (U.S. Pat. No. 5,830,905 to Diana et al.), benzenedicarboxamides (U.S. Pat. No. 5,633,388 to Diana et al.), polyadenylic acid derivatives (U.S. Pat. No. 5,496,546 to Wang et al.), 2',3'-dideoxyinosine (U.S. Pat. No. 5,026,687 to Yarchoan et al.), benzimidazoles (U.S. Pat. No. 5,891,874 to Colacino et al.), plant extracts (U.S. Patent No. 5,837,257 to Tsai et al., U.S. Patent No. 5,725,859 to Omer et al., and U.S. Patent No. 6,056,961), and piperidenes (U.S. Patent No. 5,830,905 to Diana et al.).

15) Any other compounds currently in preclinical or clinical development for treatment of hepatitis C virus including: Interleukin-10 by Schering-Plough, IP-501 by Interneuron, Merimebodib (VX-497) by Vertex, AMANTADINE® (Symmetrel) by Endo Labs Solvay, HEPTAZYME® by RPI, IDN-6556 by Idun Pharma., XTL-002 by XTL., HCV/MF59 by Chiron, CIVACIR® (Hepatitis C Immune Globulin) by NABI, LEVOVIRIN® by ICN/Ribapharm, VIRAMIDINE® by ICN/Ribapharm, ZADAXIN® (thymosin alpha-1) by Sci Clone, thymosin plus pegylated interferon by Sci Clone, CEPLENE® (histamine dihydrochloride) by Maxim, VX 950 / LY 570310 by Vertex/Eli Lilly, ISIS 14803 by Isis Pharmaceutical/Elan, IDN-6556 by Idun Pharmaceuticals, Inc., JTK 003 by AKROS Pharma, BILN-2061 by Boehringer Ingelheim, CellCept (mycophenolate mofetil) by Roche, T67, a β-tubulin inhibitor, by Tularik, a therapeutic vaccine directed to E2 by Innogenetics, FK788 by Fujisawa Healthcare, Inc., IdB 1016 (Siliphos, oral silybin-phosphatdylcholine phytosome), RNA replication inhibitors (VP50406) by ViroPharma/Wyeth, therapeutic vaccine by Intercell, therapeutic vaccine by Epimmune/Genencor, IRES inhibitor by Anadys, ANA 245 and ANA 246 by Anadys, immunotherapy (Therapore) by Avant, protease inhibitor by Corvas/SChering, helicase inhibitor by Vertex, fusion inhibitor by Trimeris, T cell therapy by CellExSys, polymerase inhibitor by Biocryst, targeted RNA chemistry by PTC Therapeutics, Dication by Immtech, Int., protease inhibitor by Agouron, protease inhibitor by Chiron/Medivir, antisense therapy by AVI

BioPharma, antisense therapy by Hybridon, hemopurifier by Aethlon Medical, therapeutic vaccine by Merix, protease inhibitor by Bristol-Myers Squibb/Axys, Chron-VacC, a therapeutic vaccine, by Tripep, UT 231B by United Therapeutics, protease, helicase and polymerase inhibitors by Genelabs Technologies, IRES inhibitors by Immusol, R803 by Rigel Pharmaceuticals, INFERGEN® (interferon alphacon-1) by InterMune, OMNIFERON® (natural interferon) by Viragen, ALBUFERON® by Human Genome Sciences, REBIF® (interferon beta-1a) by Ares-Serono, Omega Interferon by BioMedicine, Oral Interferon Alpha by Amarillo Biosciences, interferon gamma, interferon tau, and Interferon gamma- 1b by InterMune.

V. Pharmaceutical Compositions

Hosts, including humans, infected with pestivirus, flavivirus, HCV or another organism replicating through a RNA-dependent RNA viral polymerase, or for treating any other disorder described herein, can be treated by administering to the patient an effective amount of the active compound or a pharmaceutically acceptable prodrug or salt thereof in the presence of a pharmaceutically acceptable carrier or dilutent. The active materials can be administered by any appropriate route, for example, orally, parenterally, intravenously, intradermally, subcutaneously, or topically, in liquid or solid form.

A preferred dose of the compound for pestivirus, flavivirus or HCV infection or any other condition described herein will be in the range from about 1 to 50 mg/kg, preferably 1 to 20 mg/kg, of body weight per day, more generally 0.1 to about 100 mg per kilogram body weight of the recipient per day. Lower doses may be preferable, for example doses of 0.5-100 mg, 0.5-50 mg, 0.5-10 mg, or 0.5-5 mg per kilogram body weight per day. Even lower doses may be useful, and thus ranges can also include from 0.1-0.5 mg per kilogram body weight per day. The effective dosage range of the pharmaceutically acceptable salts and prodrugs can be calculated based on the weight of the parent nucleoside to be delivered. If the salt or prodrug exhibits activity in itself, the effective dosage can be estimated as above using the weight of the salt or prodrug, or by other means known to those skilled in the art.

The compound is conveniently administered in a unit of any suitable dosage form, including but not limited to one containing 7 to 3000 mg, preferably 70 to 1400 mg of active

ingredient per unit dosage form. An oral dosage of 50-1000 mg is usually convenient, including in one or multiple dosages of 50, 100, 200, 250, 300, 400, 500, 600, 700, 800, 900 or 1000 mgs. Lower doses may be preferable, for example from 10-100 or 1-50 mg. Also contemplated are doses of 0.1-50 mg, or 0.1-20 mg or 0.1-10.0 mg. Furthermore, lower doses may be utilized in the case of administration by a non-oral route, as, for example, by injection or inhalation.

Ideally the active ingredient should be administered to achieve peak plasma concentrations of the active compound of from about 0.2 to 70 μM, preferably about 1.0 to 10 μM. This may be achieved, for example, by the intravenous injection of a 0.1 to 5% solution of the active ingredient, optionally in saline, or administered as a bolus of the active ingredient.

The concentration of active compound in the drug composition will depend on absorption, inactivation and excretion rates of the drug as well as other factors known to those of skill in the art. It is to be noted that dosage values will also vary with the severity of the condition to be alleviated. It is to be further understood that for any particular subject, specific dosage regimens should be adjusted over time according to the individual need and the professional judgment of the person administering or supervising the administration of the compositions, and that the concentration ranges set forth herein are exemplary only and are not intended to limit the scope or practice of the claimed composition. The active ingredient may be administered at once, or may be divided into a number of smaller doses to be administered at varying intervals of time.

A preferred mode of administration of the active compound is oral. Oral compositions will generally include an inert diluent or an edible carrier. They may be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and used in the form of tablets, troches, or capsules. Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition.

The tablets, pills, capsules, troches and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a

flavoring agent such as peppermint, methyl salicylate, or orange flavoring. When the dosage unit form is a capsule, it can contain, in addition to material of the above type, a liquid carrier such as a fatty oil. In addition, dosage unit forms can contain various other materials which modify the physical form of the dosage unit, for example, coatings of sugar, shellac, or other enteric agents.

The compound can be administered as a component of an elixir, suspension, syrup, wafer, chewing gum or the like. A syrup may contain, in addition to the active compounds, sucrose as a sweetening agent and certain preservatives, dyes and colorings and flavors.

The compound or a pharmaceutically acceptable prodrug or salts thereof can also be mixed with other active materials that do not impair the desired action, or with materials that supplement the desired action, such as antibiotics, antifungals, anti-inflammatories, or other antivirals, including other nucleoside compounds. Solutions or suspensions used for parenteral, intradermal, sucutaneous, or topical application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediaminetetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. The parental preparation can be enclosed in ampoules, disposable syringes or multiple dose vials made of glass or plastic.

If administered intravenously, preferred carriers are physiological saline or phosphate buffered saline (PBS).

In a preferred embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation.

Liposomal suspensions (including liposomes targeted to infected cells with monoclonal antibodies to viral antigens) are also preferred as pharmaceutically acceptable carriers. These may be prepared according to methods known to those skilled in the art, for

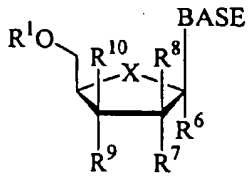
example, as described in U.S. Patent No. 4,522,811 (which is incorporated herein by reference in its entirety). For example, liposome formulations may be prepared by dissolving appropriate lipid(s) (such as stearoyl phosphatidyl ethanolamine, stearoyl phosphatidyl choline, arachadoyl phosphatidyl choline, and cholesterol) in an inorganic solvent that is then evaporated, leaving behind a thin film of dried lipid on the surface of the container. An aqueous solution of the active compound or its monophosphate, diphosphate, and/or triphosphate derivatives is then introduced into the container. The container is then swirled by hand to free lipid material from the sides of the container and to disperse lipid aggregates, thereby forming the liposomal suspension.

VI. Processes for the Preparation of Active Compounds

The nucleosides of the present invention can be synthesized by any means known in the art. In particular, the synthesis of the present nucleosides can be achieved by either alkylating the appropriately modified sugar, followed by glycosylation or glycosylation followed by alkylation of the nucleoside. The following non-limiting embodiments illustrate some general methodology to obtain the nucleosides of the present invention.

A. General Synthesis of 1'-C-Branched Nucleosides

1'-C-Branched ribonucleosides of the following structure:



wherein BASE is a purine or pyrimidine base as defined herein;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^9, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond;

R^1 and R^2 are independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which is capable of providing a compound wherein R^1 or R^2 is independently H or phosphate, for example when administered *in vivo*;

R^6 is an alkyl, chloro-, bromo-, fluoro-, or iodo-alkyl (i.e. CF_3), alkenyl, or alkynyl (i.e. allyl); and

X is O, S, SO_2 or CH_2

can be prepared by one of the following general methods.

1) Modification from the lactone

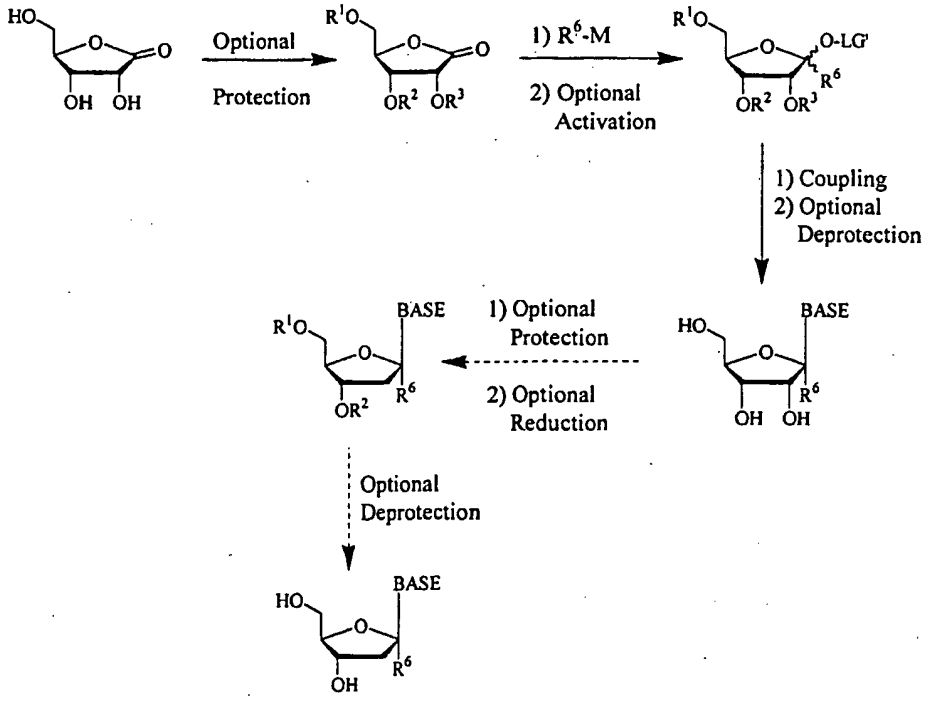
The key starting material for this process is an appropriately substituted lactone. The lactone can be purchased or can be prepared by any known means including standard epimerization, substitution and cyclization techniques. The lactone can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene *et al. Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, **1991**. The protected lactone can then be coupled with a suitable coupling agent, such as an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-$SiMe_3$ in TBAF with the appropriate non-protic solvent at a suitable temperature, to give the 1'-alkylated sugar.

The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, **1994**. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 1'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 1**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis,* John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 1



2. Alternative method for the preparation of 1'-C-branched nucleosides

The key starting material for this process is an appropriately substituted hexose. The hexose can be purchased or can be prepared by any known means including standard epimerization, such as alkaline treatment, substitution and coupling techniques. The hexose

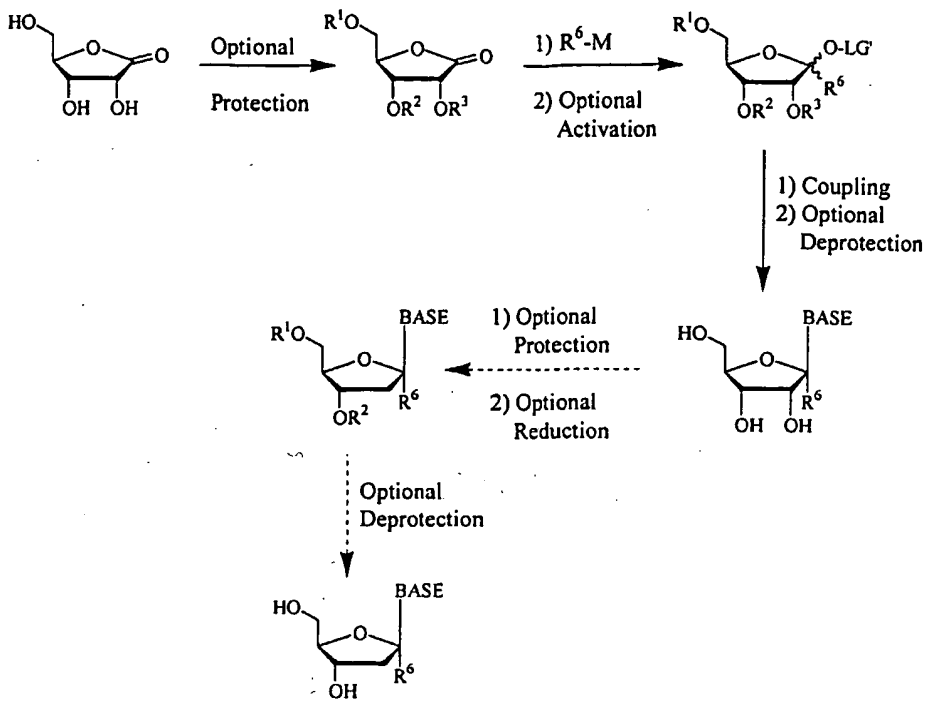
can be selectively protected to give the appropriate hexa-furanose, as taught by Townsend *Chemistry of Nucleosides and Nucleotides,* Plenum Press, **1994.**

The 1'-hydroxyl can be optionally activated to a suitable leaving group such as an acyl group or a chloro, bromo, fluoro, iodo via acylation or halogenation, respectively. The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, **1994.** For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

The 1'-CH_2-OH, if protected, can be selectively deprotected by methods well known in the art. The resultant primary hydroxyl can be functionalized to yield various C-branched nucleosides. For example, the primary hydroxyl can be reduced to give the methyl, using a suitable reducing agent. Alternatively, the hydroxyl can be activated prior to reduction to facilitate the reaction; i.e. via the Barton reduction. In an alternate embodiment, the primary hydroxyl can be oxidized to the aldehyde, then coupled with a carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-$SiMe_3$ in TBAF with the appropriate non-protic solvent at a suitable temperature.

In a particular embodiment, the 1'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 2.** Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis,* John Wiley and Sons, Second Edition, **1991,** and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

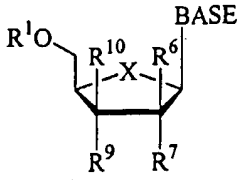
Scheme 2



In addition, the L-enantiomers corresponding to the compounds of the invention can be prepared following the same general methods (1 or 2), beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

B. General Synthesis of 2'-C-Branched Nucleosides

2'-C-Branched ribonucleosides of the following structure:



wherein BASE is a purine or pyrimidine base as defined herein;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^{10} is H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^9, or R^7 and R^{10} can come together to form a pi bond;

R^1 and R^2 are independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 or R^2 is independently H or phosphate;

R^6 is an alkyl, chloro-, bromo-, fluoro-, iodo-alkyl (i.e. CF_3), alkenyl, or alkynyl (i.e. allyl); and

X is O, S, SO_2 or CH_2

can be prepared by one of the following general methods.

1. Glycosylation of the nucleobase with an appropriately modified sugar

The key starting material for this process is an appropriately substituted sugar with a 2'-OH and 2'-H, with the appropriate leaving group (LG), for example an acyl group or a chloro, bromo, fluoro or iodo. The sugar can be purchased or can be prepared by any known means including standard epimerization, substitution, oxidation and reduction techniques. The substituted sugar can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2-pyridine, H_2O_2-ammonium molybdate, $NaBrO_2$-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

Then coupling of an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-$SiMe_3$ in TBAF with the ketone with the appropriate non-protic solvent at a suitable temperature, yields the 2'-alkylated sugar. The

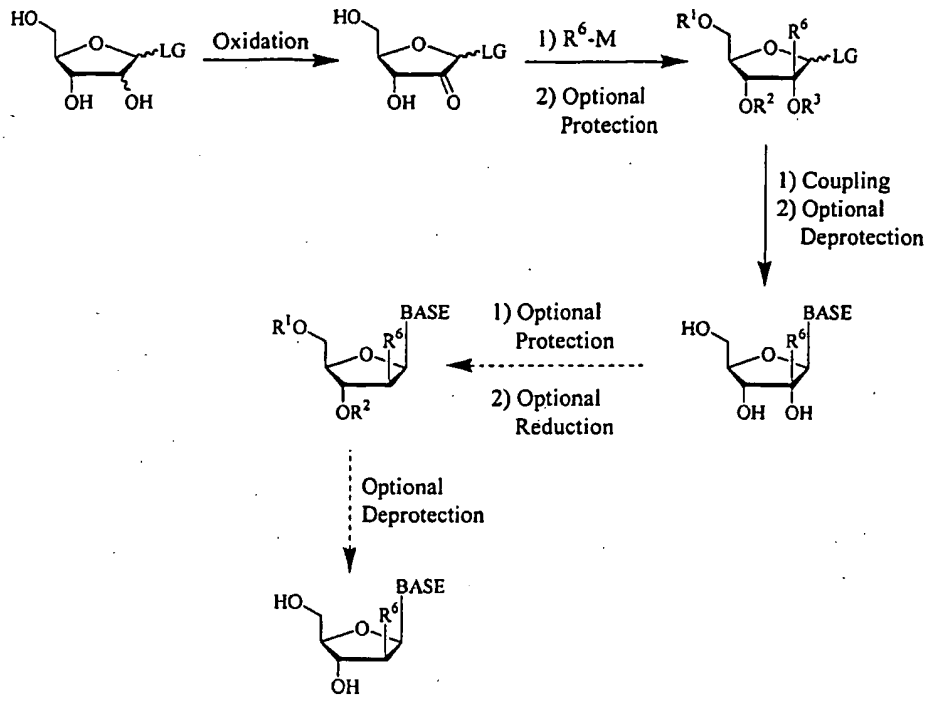
alkylated sugar can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

The optionally protected sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 2'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 3**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 3



2. Modification of a pre-formed nucleoside

The key starting material for this process is an appropriately substituted nucleoside with a 2'-OH and 2'-H. The nucleoside can be purchased or can be prepared by any known means including standard coupling techniques. The nucleoside can be optionally protected with suitable protecting groups, preferably with acyl or silyl groups, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

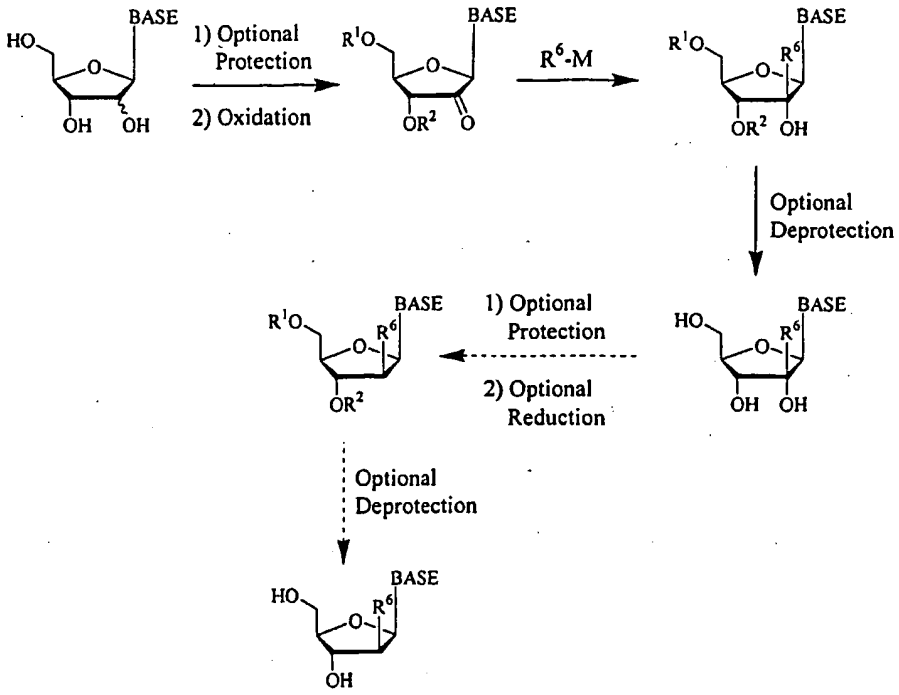
The appropriately protected nucleoside can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2-pyridine, H_2O_2-ammonium molybdate, $NaBrO_2$-CAN, NaOCl in HOAc,

copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by GreeneGreene et al. *Protective Groups in Organic Synthesis,* John Wiley and Sons, Second Edition, **1991**.

In a particular embodiment, the 2'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 4**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, **1991**, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 4



3. Synthesis Of β-D-2'-C-Methyl-Ribofuranosyl Cytidine-3'-O-L- Valine Ester

In one synthesis method, depicted in Figure 5, the synthesis comprises reacting cytosine, BSA and $SnCl_4$/acetonitrile with 1,2,3,5-tetra-*O*-benzoyl-2-C-methyl-β-D-ribofuranose (Figure 5, compound 1) to form 4-amino-1-(3,4-dibenzoyloxy-5-benzoyloxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidin-2-one (Figure 5, compound 2); and reacting (Figure 5, compound 2) with NaOMe/MeOH to provide 4-amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidin-2-one (Figure 5, compound 3), also known as 2-C-methyl- β-D-ribofuranose. The use of cytosine as a starting material rather than benzoyl-cytosine improves the "atom economy" of the process and simplifies purification at later steps.

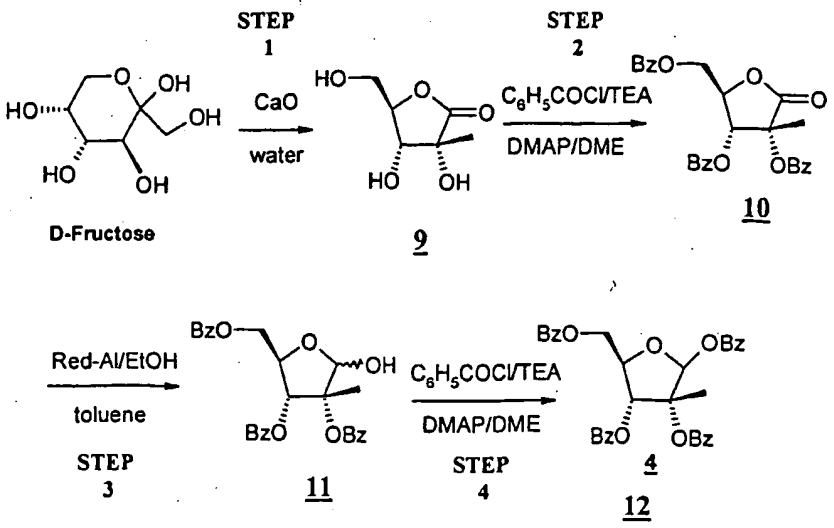
The next steps in this process comprise reacting (Figure 5, compound 3) with $Me_2NCH(OMe)_2$ in DMF to form (Figure 5, compound 4), *N*-[1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-2-oxo-1, 2-dihydro-pyrimidin-4-yl]-*N,N*-dimethyl-formamidine, which is the amino-protected form of (Figure 5, compound 3); reacting (Figure 5, compound 4) with TBDPSCl and imidazole in DCM to provide the 5'-silyl-protected form of (Figure 5, compound 4) as *N'*-{1-[5-(*tert*-butyl-diphenyl-silanyloxymethyl)-3,4-dihydroxy-3-methyl-tetrahydro-furan-2-yl]-2-oxo-1, 2-dihydro-pyrimidin-4-yl}-*N,N*-dimethyl-formamidine (Figure 5, compound 5), where the use of DCM provides the advantage of having greater control over disilyl by-product formation; reacting (Figure 5, compound 5) with *N*-Boc-*L*-valine, EDC and DMAP in DCM at room temperature to form 2-*tert*-butoxycarbonylamino-3-methyl-butyric acid 2-(*tert*-butyl-diphenyl-silanyloxy-methyl)-5-[4-(dimethylamino-methyleneamino)-2-oxo-*2H*-pyrimidin-1-yl]-4-hydroxy-4-methyl-tetrahydro-furan-3-yl ester (Figure 5, compound 6); removing the silyl and amino-protecting groups by reacting (Figure 5, compound 6) with NH_4F in MeOH in the presence of approximately 10 mole equivalents of ethyl acetate to prevent cleavage of the 3'-O-valinyl ester by liberated ammonia, and refluxing the mixture to provide 2-*tert*-butoxycarbonylamino-3-methyl-butyric acid 5-(4-amino-2-oxo-*2H*-pyrimidin-1-yl)-4-hydroxy-2-hydroxymethyl-4-methyl-tetrahydro-furan-3-yl ester to provide (Figure 5, compound 7); and finally, reacting (Figure 5, compound 7) with HCl in EtOH to provide 2-amino-3-methyl-butyric acid 5-(4-amino-2-oxo-*2H*-pyrimidin-1-yl)-4-hydroxy-2-hydroxymethyl-4-methyl-tetrahydro-furan-3-yl ester, dihydrochloride salt (Figure 5, compound 8) as a final product.

6. Alternative Synthesis of β-D-2'-C-Methyl-Ribofuranosyl Cytidine-3'-O-L- Valine Ester

In another method to synthesize the compounds of the invention, shown in Figure 6, benzoylcytosine, BSA and $SnCl_4$/acetonitrile are reacted with 1,2,3,5-tetra-*O*-benzoyl-2-C-methyl-β-D-ribofuranose (Figure 6, compound **1a**) to form 4-benzoylamino-1-(3,4-dibenzoyloxy-5-benzoyloxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidin-2-one (Figure 6, compound **2a**); reacting (Figure 6, compound **2a**) with NH_3 in methanol and chromatographically separating the product, 4-amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidin-2-one (Figure 6, compound **3a**), also known as β-D-2'-C-methyl-cytidine; reacting (Figure 6, compound **3a**) with $Me_2NCH(OMe)_2$ in DMF at room temperature for 1.5 hours to form *N*-[1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-2-oxo-1,2-dihydro-pyrimidin-4-yl]-*N,N*-dimethyl-formamidine (Figure 6, compound **4a**); reacting (Figure 6, compound **4a**) with TBDPSCl and pyridine at room temperature for 6 hours to provide *N*'-{1-[5-(*tert*-butyl-diphenyl-silanyloxymethyl)-3,4-dihydroxy-3-methyl-tetrahydro-furan-2-yl]-2-oxo-1,2-dihydro-pyrimidin-4-yl}-*N,N*-dimethyl-formamidine (Figure 6, compound **5a**); reacting (Figure 6, compound **5a**) with *N*-Boc-*L*-valine, DEC and DMAP in THF/DMF at room temperature for 2 days and subjecting the product formed from this reaction to HPLC in order to provide 2-*tert*-butoxycarbonylamino-3-methyl-butyric acid 2-(*tert*-butyl-diphenyl-silanyloxy-methyl)-5-[4-(dimethylaminomethyleneamino)-2-oxo-*2H*-pyrimidin-1-yl]-4-hydroxy-4-methyl-tetrahydro-furan-3-yl ester (Figure 6, compound **6a**); refluxing (Figure 6, compound **6a**) with NH_4F in MeOH for about 3 hours to remove the silyl and amino-protecting groups, and subjecting the product to chromatographic purification to provide 2-*tert*-butoxycarbonylamino-3-methyl-butyric acid 5-(4-amino-2-oxo-*2H*-pyrimidin-1-yl)-4-hydroxy-2-hydroxymethyl-4-methyl-tetrahydro-furan-3-yl ester (Figure 6, compound **7a**); and finally reacting (Figure 6, compound **7a**) with HCl in EtOAc at room temperature to provide 2-amino-3-methyl-butyric acid 5-(4-amino-2-oxo-*2H*-pyrimidin-1-yl)-4-hydroxy-2-hydroxymethyl-4-methyl-tetrahydro-furan-3-yl ester, dihydrochloride salt (Figure 6, compound **8a**) as a final product.

The synthesis of 2'-C-methyl-cytidine-3'-O-L-valine ester (val-mcyd) is depicted in **scheme 5** and **scheme 6**, and described below.

Scheme 5



Step 1: Synthesis of scheme 5, compound 9: 2-C-Methyl-D-ribonic-γ-lactone

De-ionized water (100 mL) was stirred in a 250 mL 3-necked round bottom flask, equipped with an overhead stirrer, a stirring shaft, a digital temperature read-out device and an argon line. Argon was bubbled into water for thirty minutes and D-fructose (20.0 g, 0.111 mole) was added and the solution became clear in a few minutes. Calcium oxide (12.5 g, 0.223 mole) was added in portions over a period of five minutes and the mixture was vigorously stirred. An exotherm was observed and reaction temperature reached 39.6°C after 10 minutes from the start of the calcium oxide addition. After about fifteen minutes, the reaction mixture developed a yellow color that deepened with time. After three hours, an aliquot was withdrawn for TLC analysis. The aliquot was acidified to pH 2 using saturated aqueous solution of oxalic acid. The resulting white suspension was evaporated under reduced pressure to remove the water. Toluene (2 mL) was added to the residue and the mixture was evaporated under reduced pressure (at 45-50°C) to remove any trace of water. The residual solid was re-constituted in 2 mL of 1:1 tetrahydrofuran : methanol mixture. After thorough mixing, the suspension was allowed to settle and the supernatant clear solution was spotted for TLC (silica plate was developed in 2% methanol in ethyl acetate and

stained in 1% alkaline potassium permanganate dip. The plate was then heated, using a heat gun, until the appearance of yellowish spots on the pink background). The desired lactone typically appears at an R_f value of 0.33 under the above conditions. More polar by-products and unreacted material are detected in the R_f value range of 0.0 to 0.2.

Although product formation was observed after 3 hours, the reaction was allowed to continue for 22 hours during which time the reaction mixture was stirred at 25 °C. At the end of this period, pH of the mixture was 13.06. Carbon dioxide gas was bubbled into the reaction mixture for about 2.5 hours (pH was 7.25). The formed calcium carbonate solid was removed by vacuum filtration, filter cake washed with 50 mL of de-ionized water. The aqueous layers were combined and treated with oxalic acid (5.0 g, 0.056 mole) and the mixture was vigorously stirred at 25°C for 30 minutes (The initial dark color largely disappeared and the mixture turned into a milky white slurry). The pH of the mixture at this stage is typically 2-3. The slurry mixture was stirred at 45-50°C overnight. The mixture was then evaporated under reduced pressure and at 45-50°C to remove 75 mL of water. Sodium chloride (30 g) and tetrahydrofuran (100 mL) were added to the aqueous slurry (about 75 mL) and the mixture was vigorously stirred at 25°C for 30 minutes. The layers were separated and the aqueous layer was stirred for 10 minutes with 75 mL of fresh tetrahydrofuran. This process was repeated for three times and the tetrahydrofuran solutions were combined and stirred with 10 g of anhydrous magnesium sulfate for 30 minutes. The mixture was filtered and the magnesium sulfate filter cake was washed with 60 mL of tetrahydrofuran. The filtrate was evaporated under reduced pressure and at 40°C to give 10.86 g of crude product as a dark orange semisolid. (For scale up runs tetrahydrofuran will be replaced with acetone instead of evaporation of crude product to dryness). Crude product was stirred with acetone (20 mL) at 20°C for 3 hours. Product was collected by vacuum filtration and the filter cake washed with 12 mL of acetone to give the desired product 9 as white crystalline solid. Product was dried in vacuum to give 2.45 g (13.6% yield). Melting point of compound 9: 158-162°C (literature melting point: 160-161 °C). ^{1}H NMR (DMSO-d_6) δ ppm 5.69 (s, 1H, exch. With D_2O), 5.41 (d, 1H, exch. With D_2O), 5.00 (t, 1H, exch. With D_2O), 4.15 (m, 1H), 3.73 (m, 2H), 3.52 (m, 1H), 1.22 (s, 3H). ^{13}C NMR (DMSO-d_6) δ ppm 176.44, 82.95, 72.17, 72.02, 59.63, 20.95. ($C_6H_{10}O_5$: calcd C, 44.45; H, 6.22. Found: C, 44.34; H, 6.30).

Step 2: Synthesis of scheme 5, compound 10: 2,3,5-Tri-O-benzoyl-2-C-methyl-D-ribonic-γ-lactone

A mixture of lactone 1 (3.0 g, 18.50 mmol.), 4-dimethylaminopyridine (0.45 g, 3.72 mmol.) and triethylamine (25.27 g, 249.72 mmol.) in 1,2-dimethoxy ethane(50 mL) was stirred at 25°C under argon atmosphere for thirty minutes. This white suspension was cooled to 5°C and benzoyl chloride (11.7 g, 83.23 mmol.) was added over a period of fifteen minutes. The mixture was stirred at 25°C for two hours. TLC analysis (silica, 2% methanol in ethyl acetate) indicated complete consumption of starting material. Ice cold water (100 g) was added to the reaction mixture and stirring was continued for thirty minutes. The formed white solids were collected by vacuum filtration and filter cake washed with cold water (50 mL). This crude product was stirred with tert-butyl methyl ether (60 mL) at 20 °C for thirty minutes, then filtered, filter cake washed with tert-butyl methyl ether (25 mL) and dried in vacuum to give 7.33 g (83.4% yield) of compound 10 as a white solid in 97.74% purity (HPLC/AUC). Melting point of compound 10: 137-140 °C (literature melting point: 141-142 °C). ^{1}H NMR ($CDCl_3$) δ ppm 8.04 (d, 2H), 7.92 (d, 2H), 7.73 (d, 2H), 7.59 (t, 1H), 7.45 (m, 4H), 7.32 (t, 2H), 7.17 (t, 2H), 5.51 (d, 1H), 5.17 (m, 1H), 4.82-4.66 (d of an AB quartet, 2H) 1.95, (s, 3H). ^{13}C NMR ($CDCl_3$) δ ppm 172.87, 166.17, 166.08, 165.58, 134.06, 133.91, 133.72, 130.09, 129.85, 129.80, 129.37, 128.78, 128.60, 128.49, 127.96, 127.89, 79.67, 75.49, 72.60, 63.29, 23.80. TOF MS ES+ (M+1: 475).

Step 3: Synthesis of scheme 5, compound 11: 2,3,5-Tri-O-benzoyl-2-C-methyl-β-D-ribofuranose:

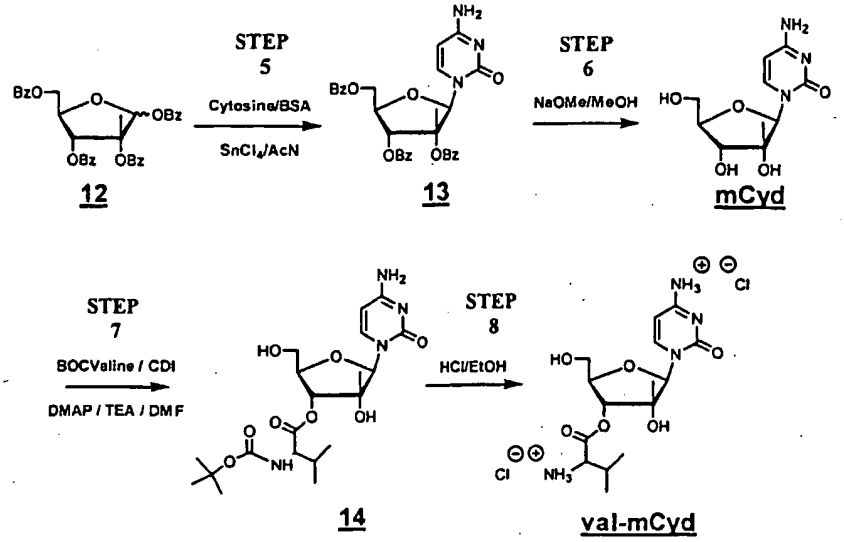
A solution of Red-Al (65wt.% in toluene, 2.0 mL, 6.56 mmol.) in anhydrous toluene (2.0 mL) was stirred at 0°C under argon atmosphere. A solution of anhydrous ethanol (0.38 mL, 6.56 mmol.) in anhydrous toluene (1.6 mL) was added to the toluene solution over a period of five minutes. The resulting mixture was stirred at 0 °C for fifteen minutes and 2 mL (2.18 mmol.) of this Red-Al/ethanol reagent was added to a cold (-5°C) solution of 2,3,5-tri-O-benzoyl-2-C-methyl-D-ribonolactone (475 mg, 1.0 mmol.) in anhydrous toluene (10 mL) over a period of 10 minutes. The reaction mixture was stirred at -5 °C for forty minutes. TLC analysis (silica plates, 35% ethyl acetate in heptane) indicated complete consumption of starting material. HPLC analysis indicated only 0.1% of starting material remaining. The reaction was quenched with acetone (0.2 mL), water (15 mL) and 1 N HCl (15 mL) at 0 °C and allowed to warm to room temperature. 1 N HCl (5 mL) was added to dissolve the inorganic salts (pH : 2-3). The mixture was extracted with ethyl acetate (3 x 25 mL) and the

organic solution washed with brine (25 mL), dried (anhydrous sodium sulfate, 10 g) and solvent removed under reduced pressure and at temperature of 40°C to give the desired product 11 in quantitative yield (480 mg). This material was used as is for the subsequent step.

Step 4: Synthesis of scheme 5, compound 12: 1,2,3,5-tetra-O-benzoyl-2-C-methyl-β-D-ribofuranose:

Benzoyl chloride (283 mg, 2.0 mmol.) was added, over a period of five minutes, to a cold solution (5°C) of compound 11 (480 mg, 1.0 mmol.), 4-dimethylaminopyridine (12.3 mg, 0.1 mmol.) and triethylamine (506 mg, 5.0 mmol.) in anhydrous tetrahydrofuran (5 mL). The reaction mixture was stirred at room temperature and under argon atmosphere overnight. HPLC analysis indicated 0.25% of un-reacted starting material. The reaction was quenched by adding ice-cold water (10 g) and saturated aqueous solution of sodium bicarbonate. Tetrahydrofuran was removed under reduced pressure and the mixture was extracted with ethyl acetate (50 mL). The organic solution was washed with water (25 mL), brine (25 mL), dried (anhydrous sodium sulfate, 12 g) and solvent removed under reduced pressure to give 650 mg of thick oily product. This crude product was stirred with 5 mL of tert-butyl methyl ether for 5 minutes and heptane (5 mL) and water (0.1 mL) were added and stirring was continued for an additional period of two hours at 20°C. Solids were collected by vacuum filtration and filter caked washed with 1:1 heptane:tert-butyl methyl ether solution (6 mL) and tert-butyl methyl ether (2 mL). Drying the solid in vacuum gave 300 mg (52%) of desired product 12 (98.43% pure by HPLC/AUC) as a white solid that melted at 154-156.3°C (literature melting point: 155-156°C). ^{1}H NMR ($CDCl_3$) δ ppm 8.13 (m, 4H), 8.07 (d, 2H), 7.89 (d, 2H), 7.63 (m, 3H), 7.48 (m, 6H), 7.15 (m, 3H), 7.06 (s, 1H), 5.86 (dd, 1H), 4.79 (m, 1H), 4.70-4.52 (d of an AB quartet, 2H), 1.95, (s, 3H). ^{13}C NMR ($CDCl_3$) δ ppm 166.31, 165.83, 165.01, 164.77, 134.01, 133.86, 133.70, 133.17, 130.44, 130.13, 129.97, 129.81, 129.59, 129.39, 129.07, 128.84, 128.76, 128.37, 98.01, 86.87, 78.77, 76.35, 64.05, 17.07. ($C_{34}H_{28}O_9$: calcd C, 70.34; H, 4.86. Found: C, 70.20; H, 4.95).

Scheme 6



Step 5: Synthesis of scheme 6, compound 13: 4-Amino-1-(3,4-dibenzoyloxy-5-benzyloxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidine-2-one

Cytosine (89 g, 0.80 mol) was suspended in acetonitrile (900 ml) in a 12 L round bottomed flask equipped with a reflux condenser, overhead stirrer and an argon inlet adapter. The suspension was stirred at 20°C under argon atmosphere and N,O-bis(trimethylsilyl)acetamide (537 ml, 2.2 mol) was added in one portion. The resulting solution was heated to 80° C and stirred for an additional hour at the same temperature. 1,2,3,5-tetra-O-benzoyl-2-C-methyl-□-D-ribofuranose (425.0 g, 0.73 mol) was suspended in acetonitrile (4000 ml) and added to the reaction mixture. The reaction mixture became clear after a few minutes and the temperature dropped to ca. 50° C. Tin(IV) chloride (154 ml, 1.31 mol) was added over a period of 15 minutes and stirring was continued at 80°C. After one hour, an aliquot of reaction mixture was quenched by adding aqueous sodium bicarbonate solution and extracting the aqueous layer with ethyl acetate. The ethyl acetate layer was examined by TLC (silica gel, 20% ethyl acetate in heptane, R_f for sugar derivative: 0.40). TLC analysis indicated the complete consumption of the sugar derivative. Desired product was detected by TLC using 10% methanol in dichloromethane (R_f: 0.37). The reaction was also monitored by HPLC (Method # 2). Reaction mixture was cooled to 20°C and quenched by adding saturated aqueous sodium bicarbonate solution (3000 ml) over a period of 30 minutes (observed an exotherm when added the first few drops of the sodium bicarbonate solution). Solid sodium bicarbonate (1350 g) was added in portions to avoid foaming. The mixture was checked to make sure that its pH is $\geq$ 7. Agitation was stopped and layers were

allowed to separate for 20 minutes. The aqueous layer was drained and stirred with ethyl acetate (1500 ml) and the mixture was allowed to separate (30 minutes). The organic layer was isolated and combined with the acetonitrile solution. The organic solution was washed with brine (500 ml) and then solvent stripped to a volume of ca. 750 ml. Product can be used as is in the subsequent reaction. It may also be further stripped to white foamy solid, in quantitative yield. Structure of compound 13 was confirmed by ^{1}H NMR analysis.

Step 6: Synthesis of scheme 6, compound mCyd: 4-Amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidine-2-one

Sodium methoxide (13.8 g, 0.26 mol) was added to a solution of compound 10 (416 g, 0.73mol) in methanol (2000 ml). The reaction mixture was stirred at room temperature and monitored by TLC (silica gel, 10% methanol in dichloromethane, R_f of compound 9: 0.53) and (silica gel, 30% methanol in dichloromethane, R_f of compound 11: 0.21). Product started to precipitate after 30 minutes and TLC indicated reaction completion after two hours. The reaction was also monitored by HPLC (Method # 2). Methanol was removed under reduced pressure to a volume of ca. 500 ml chased with ethanol (2 x 500 ml) to a volume of ca. 500 ml. The residual thick slurry was diluted with 750 ml of ethanol and the mixture was stirred at 20 ° C for one hour. Product was collected by filtration, filter cake washed with ethanol (100 ml) and tert-butyl-methyl ether (100 ml) and dried to give 168 g (90% yield for the two steps) of product 11 in purity of > 97% (HPLC/AUC). Product was also analyzed by ^{1}H and ^{13}C NMR.

Step 7: Synthesis of scheme 6, compound 14: 2-*Tert*-butoxycarbonylamino-3-methyl-butyric acid 5-(4-amino-2-oxo-*2H*-pyrimidin-1-yl)-4-hydroxy-2-hydroxymethyl-4-methyl-tetrahydro-furan-3-yl ester

A solution of N-(tert-butoxycarbonyl)-L-valine (46.50 g, 214 mmol.), carbonyldiimidazole (34.70 g, 214 mmol.), and anhydrous tetrahydrofuran (1000 mL) in a 2 L round bottom flask, was stirred at 25°C under argon for 1.5 hours and then at 40-50°C for 20 minutes. In a separate 5 L 5-necked round bottom flask, equipped with an overhead stirrer, cooling tower, temperature probe, addition funnel, and an argon line was added 4-amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidine-2-one (50.0 g, 195 mmol.) and anhydrous N,N-dimethylformamide (1000 mL). This mixture was heated at 100°C for 20 minutes until all of the pyrimidine-2-one derivative compound went into solution, and then triethyl amine (500 mL) and 4-dimethylaminopyridine (2.38 g,

19 mmol) were added to the solution. The mixture was next heated at 97° C for 20 minutes and the tetrahydrofuran solution was added slowly through an addition funnel over a period of 2 hours, maintaining the temperature no lower than 82°C. The reaction mixture was heated at 82 °C for 1 hour and monitored by HPLC (product = 68%, SM = 11%, and impurity at about 12 min = 17%, excluding dimethylaminopyridine). The reaction mixture was cooled to room temperature and then triethylamine and tetrahydrofuran were removed under vacuum at 30°C. The solution was then neutralized with acetic acid to a pH of 7.69. N,N-dimethylformamidine was removed under vacuum at 35°C and chased with ethyl acetate (2 x 200 mL). The crude product was stirred with ethyl acetate (500 mL) and water (300 mL). The two layers were separated and the aqueous layer was extracted with ethyl acetate (500 mL). The combined organic layers were washed with an aqueous saturated brine solution (500 mL). Next the organic layer was extracted with an aqueous solution of malonic acid (4 x 400 mL, 10wt.%). The organic layer was checked by TLC (silica, 20% methanol in dichloromethane) to make sure that all the desired product was removed from the organic layer. The acidic aqueous extracts were combined and cooled in an ice bath and neutralized with triethylamine to a pH of 7.40 so that the solids fell out of solution. Ethyl acetate then was added to the aqueous layer. The white solids were collected by vacuum filtration. Drying the obtained solids in vacuum gave 81.08 g of 99.01 pure (HPLC) first crop.

Step 8: Synthesis of scheme 6, val-mCyd - 2-Amino-3-methyl-butyric acid 5-(4-amino-2-oxo-2*H*-pyrimidine-1-yl)-4-hydroxy-2 hydroxy-methyl-4-methyl-tetrahydro-furan-3-yl ester (dihydrochloride salt)

A solution of compound 14 (21.0 g, 0.046 mol) in ethanol (168 ml) was stirred in a round bottomed flask equipped with an overhead stirrer, temperature probe, argon line and hydrogen chloride gas bubbler. Hydrogen chloride gas (22 g) was bubbled into the clear solution over a period of one hour. The reaction temperature was kept below 30°C using an ice-water bath. Solid formation started after a few minutes of introducing the hydrogen chloride gas. After 4 hours, HPLC (method # 3) showed only 0.8% of starting material. Solids were collected by filtration and filter cake washed with ethanol (20 ml) and di-ethyl ether (100 ml). After drying product under vacuum for 16 hours, 19.06 g (96.5%) of val-mCyd was obtained in 97.26% purity (HPLC, method # 3); m.p. 210°C (brown), 248-250°C (melted); ^{1}H NMR (DMSO-d_6) δ ppm 10.0 (s, 1H, 1/2NH_2, D_2O exchangeable), 8.9-8.6 (2 br s, 4H, 1/2NH_2, NH_3, D_2O exchangeable), 8.42 (d, 1H, *H*-6, J_{5-6}= 7.9 Hz), 6.24 (d, 1H, *H*-5, J_{5-6}= 7.9 Hz), 5.84 (s, 1H, *H*-1'), 5.12 (d, 1H, *H*-3', $J_{3'-4'}$= 8.8 Hz), 4.22 (d, 1H, *H*-4, $J_{3'-4'}$=

8.7 Hz), 4.0-3.9 (m, 1H, C*H*), 3.8-3.5 (m, 2H, *H*-5', *H*-5''), 2.3-2.1 (m, 1H, C*H*), 1.16 (s, 3H, CH_3), 1.0 (m, 6H, $(CH_3)_2CH$); FAB>0 (GT) 713 $(2M+H)^+$, 449 $(M+G+H)^+$, 357 $(M+H)^+$, 246 $(S)^+$, 112 $(B+2H)^+$; FAB<0 (GT) 747 $(2M+Cl)^-$, 483 $(M+G+Cl)^-$, 391 $(M+Cl)^-$, 355 $(M-H)^-$, 116 $(Val)^-$, 110 $(B)^-$, 35 $(Cl)^-$.

Two different HPLC methods were used to analyze the above compounds. Both methods use the following reverse phase column. In method 1, the column was run at a flow rate of 1.00 ml / min of an acetonitrile / water linear gradient for a 20 minute run time. Five-minute equilibration was allowed between runs. The measurements were at 254 nm.

Table A: Retention time of key intermediates:

Scheme 5, Compound	Retention Time
Compund 10	10.2 min
Compund 11	9.4 min
Compund 12	12.9 min

In the second method, identification was determined at 272 nm. A Waters Novapak C18, 3.9 x 150 mm ID, 4µm particle size, 60Å pore size or equivalent can be used. The chromatographic conditions are as follows: injection volume = 10µl, column temperature = 25°C, flow rate = 1.00 ml / min, ultraviolet detector at 272 nm, run time is 35 minutes. The system suitability requirement for the percent relative standard deviation for the reference standard is not more than 1.0%.

Table B: Purity and impurities are determined at 272 nm

Time (minutes)	Solvent A – 20nM triethylammonium acetate buffer	Solvent B – Acetonitrile, HPLC grade.
0.00	100.0	0.0
10.00	85.0	15.0
25.00	5.0	95.0
35.0	5.0	95.0

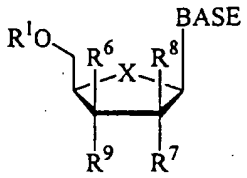
Table C: Retention times of key intermediates and final drug substance

Scheme 6, Compound	Retention Time (minutes)
Compound mCyd	2.7 - 2.8
Compund 14	15.5
val-mCyd	9.1

A process of synthesizing a β-D-2'-C-methyl-2'-acetyl-ribofuransyl-cytidine-3'-O-L-valine ester is detailed in Figure 7. A process of synthesizing a β-D-2'-C-methyl-2'-acetyl-ribofuransyl-cytidine-3'-O-L-proline ester is detailed in Figure 8. A process for synthesizing a β-D-2'-C-methyl-2'-acetyl-ribofuransyl-cytidine-3'-O-L-alanine ester is depicted in Figure 9. A process of synthesizing a β-D-2'-C-methyl-2'-(cyclohexane carboxylate)-ribofuransyl-cytidine-3'-O-L-valine ester is depicted in Figure 10. These processes can be accomplished using techniques similar to those described above.

C. General Synthesis of 3'-C-Branched Nucleosides

3'-C-Branched ribonucleosides of the following structure:



wherein BASE is a purine or pyrimidine base as defined herein;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^8 is H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^9, or R^8 and R^9 can come together to form a pi bond;

R^1 and R^2 are independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 or R^2 is independently H or phosphate;

R^6 is an alkyl, chloro-, fluoro-, bromo-, iodo-alkyl (i.e. CF_3), alkenyl, or alkynyl (i.e. allyl); and

X is O, S, SO_2 or CH_2

can be prepared by one of the following general methods.

1. Glycosylation of the nucleobase with an appropriately modified sugar

The key starting material for this process is an appropriately substituted sugar with a 3'-OH and 3'-H, with the appropriate leaving group (LG), for example an acyl group or a chloro, bromo, fluoro, iodo. The sugar can be purchased or can be prepared by any known means including standard epimerization, substitution, oxidation and reduction techniques. The substituted sugar can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 3'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2-pyridine, H_2O_2-ammonium molybdate, $NaBrO_2$-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

Then coupling of an organometallic carbon nucleophile, such as a Grignard reagent, an organolithium, lithium dialkylcopper or R^6-$SiMe_3$ in TBAF with the ketone with the appropriate non-protic solvent at a suitable temperature, yields the 3'-C-branched sugar. The 3'-C-branched sugar can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by

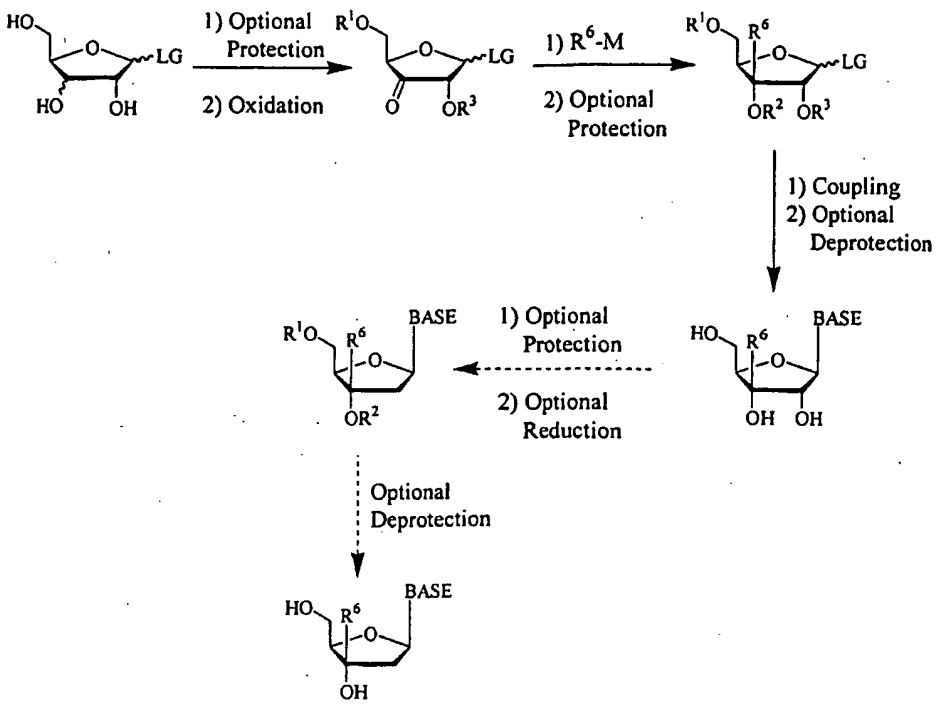
Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

The optionally protected sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature. Alternatively, a halo-sugar can be coupled to a silylated base with the presence of trimethylsilyltriflate.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 3'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 7**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

Scheme 7



2. Modification of a pre-formed nucleoside

The key starting material for this process is an appropriately substituted nucleoside with a 3'-OH and 3'-H. The nucleoside can be purchased or can be prepared by any known means including standard coupling techniques. The nucleoside can be optionally protected with suitable protecting groups, preferably with acyl or silyl groups, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

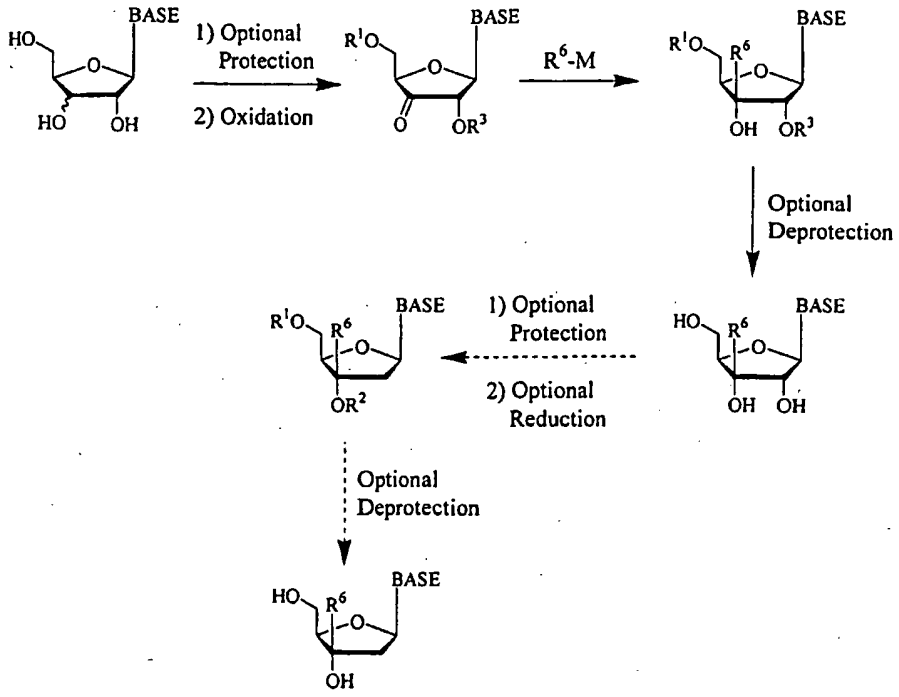
The appropriately protected nucleoside can then be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 2'-modified sugar. Possible oxidizing agents are Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2-pyridine, H_2O_2-ammonium molybdate, $NaBrO_2$-CAN, NaOCl in HOAc,

copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by GreeneGreene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 3'-C-branched ribonucleoside is desired. The synthesis of a ribonucleoside is shown in **Scheme 8**. Alternatively, deoxyribo-nucleoside is desired. To obtain these nucleosides, the formed ribonucleoside can optionally be protected by methods well known to those skilled in the art, as taught by *Greene et al. Protective Groups in Organic Synthesis,* John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

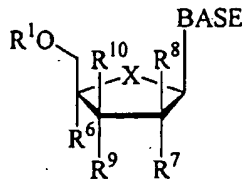
Scheme 8



In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-sugar or nucleoside L-enantiomer as starting material.

D. General Synthesis of 4'-C-Branched Nucleosides

4'-C-Branched ribonucleosides of the following structure:



wherein BASE is a purine or pyrimidine base as defined herein;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl (including lower alkyl), azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^8 and R^{10} are independently H, alkyl (including lower alkyl), chlorine, bromine or iodine;

alternatively, R^7 and R^9, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10}can come together to form a pi bond;

R^1 and R^2 are independently H; phosphate (including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug); acyl (including lower acyl); alkyl (including lower alkyl); sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl and benzyl, wherein the phenyl group is optionally substituted with one or more substituents as described in the definition of aryl given herein; a lipid, including a phospholipid; an amino acid; a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1 is independently H or phosphate;

R^6 is an alkyl, halogeno-alkyl (i.e. CF_3), alkenyl, or alkynyl (i.e. allyl); and

X is O, S, SO_2 or CH_2

can be prepared by the following general method.

Modification from the pentodialdo-furanose

The key starting material for this process is an appropriately substituted pentodialdo-furanose. The pentodialdo-furanose can be purchased or can be prepared by any known means including standard epimerization, substitution and cyclization techniques.

In a preferred embodiment, the pentodialdo-furanose is prepared from the appropriately substituted hexose. The hexose can be purchased or can be prepared by any known means including standard epimerization (e.g. via alkaline treatment), substitution and coupling techniques. The hexose can be either in the furanose form, or cyclized via any means known in the art, such as methodology taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, **1994**, preferably by selectively protecting the hexose, to give the appropriate hexafuranose.

The 4'-hydroxymethylene of the hexafuranose then can be oxidized with the appropriate oxidizing agent in a compatible solvent at a suitable temperature to yield the 4'-aldo-modified sugar. Possible oxidizing agents are Swern reagents, Jones reagent (a mixture of chromic acid and sulfuric acid), Collins's reagent (dipyridine Cr(VI) oxide, Corey's reagent (pyridinium chlorochromate), pyridinium dichromate, acid dichromate, potassium permanganate, MnO_2, ruthenium tetroxide, phase transfer catalysts such as chromic acid or permanganate supported on a polymer, Cl_2-pyridine, H_2O_2-ammonium molybdate, $NaBrO_2$-CAN, NaOCl in HOAc, copper chromite, copper oxide, Raney nickel, palladium acetate, Meerwin-Pondorf-Verley reagent (aluminum *t*-butoxide with another ketone) and *N*-bromosuccinimide, though preferably using H_3PO_4, DMSO and DCC in a mixture of benzene/pyridine at room temperature.

Then, the pentodialdo-furanose can be optionally protected with a suitable protecting group, preferably with an acyl or silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, **1991**. In the presence of a base, such as sodium hydroxide, the protected pentodialdo-furanose can then be coupled with a suitable electrophilic alkyl, halogeno-alkyl (i.e. CF_3), alkenyl or alkynyl (i.e. allyl), to obtain the 4'-alkylated sugar. Alternatively, the protected pentodialdo-furanose can be coupled with the corresponding carbonyl, such as formaldehyde, in the presence of a base, such as sodium hydroxide, with the appropriate polar solvent, such as dioxane, at a suitable temperature, which can then be reduced with an appropriate reducing agent to give the 4'-alkylated sugar. In one embodiment, the reduction

is carried out using PhOC(S)Cl, DMAP, preferably in acetonitrile at room temperature, followed by treatment of ACCN and TMSS refluxed in toluene.

The optionally activated sugar can then be coupled to the BASE by methods well known to those skilled in the art, as taught by Townsend *Chemistry of Nucleosides and Nucleotides*, Plenum Press, 1994. For example, an acylated sugar can be coupled to a silylated base with a Lewis acid, such as tin tetrachloride, titanium tetrachloride or trimethylsilyltriflate in the appropriate solvent at a suitable temperature.

Subsequently, the nucleoside can be deprotected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991.

In a particular embodiment, the 4'-C-branched ribonucleoside is desired. Alternatively, deoxyribo-nucleoside is desired. To obtain these deoxyribo-nucleosides, a formed ribo-nucleoside can optionally be protected by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991, and then the 2'-OH can be reduced with a suitable reducing agent. Optionally, the 2'-hydroxyl can be activated to facilitate reduction; i.e. via the Barton reduction.

In another embodiment of the invention, the L-enantiomers are desired. Therefore, the L-enantiomers can be corresponding to the compounds of the invention can be prepared following the same foregoing general methods, beginning with the corresponding L-pentodialdo-furanose as starting material.

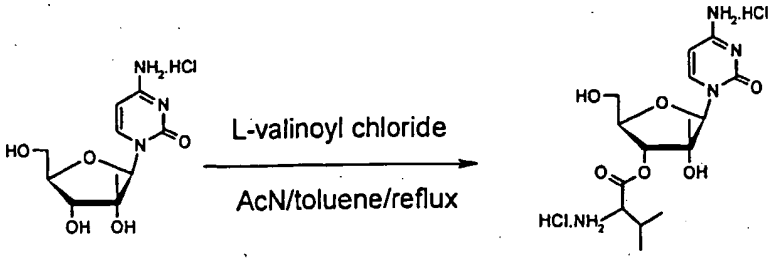
E. General Synthesis of 2' and/or 3'-Prodrugs

The key starting material for this process is an appropriately substituted 1', 2', 3' or 4'-branched β-D or β-L nucleosides. The branched nucleoside can be purchased or can be prepared by any known means including the techniques disclosed herein. The branched nucleoside can be optionally protected with a suitable protecting group, preferably with a silyl group, by methods well known to those skilled in the art, as taught by Greene et al. *Protective Groups in Organic Synthesis*, John Wiley and Sons, Second Edition, 1991. The optionally protected branched nucleoside can then be coupled with a suitable acyl doner, such as an acyl chloride and/or an acyl anhydride with the appropriate protic or aprotic solvent at a

suitable temperature, to give the 2' and/or 3' prodrug of 1', 2', 3' or 4'-branched β-D or β-L nucleoside. (*Synthetic Communications*, **1978**, *8*(5), 327-333; *J. Am. Chem. Soc.*, **1999**, *121*(24), 5661-5664.) Alternatively, the optionally protected branched nucleoside can then be coupled with a suitable acyl, such as a carboxylic acid, such as alkanoic acid and/or amino acid residue, optionally with a suitable coupling agent, with the appropriate aprotic solvent at a suitable temperature, to give the 2' and/or 3' prodrug of 1', 2', 3' or 4'-branched β-D or β-L nucleoside. Possible coupling reagents are any reagents that promote coupling, including but are not limiting to, Mitsunobu reagents (e.g. diisopropyl azodicarboxylate and diethyl azodicarboxylate) with triphenylphosphine or various carbodiimides. In one embodiment, for a 3'-prodrug of a 2'-branched nucleoside, the nucleoside is preferably not protected and is directly coupled to an alkanoic acid or amino acid residue with an appropriate coupling reagient, such as a carbodiimide.

For example, simple amino-alcohols can be esterified using acid chlorides in refluxing acetonitrile-benzene mixture (See **Scheme 9** below: *Synthetic Communications*, **1978**, *8*(5), 327-333; hereby incorporated by reference). Alternatively, esterification can be achieved using an anhydride, as described in *J. Am. Chem. Soc.*, **1999**, *121*(24), 5661-5664, which is hereby incorportated by reference. See **Figures 2, 3** and **4**.

Scheme 9



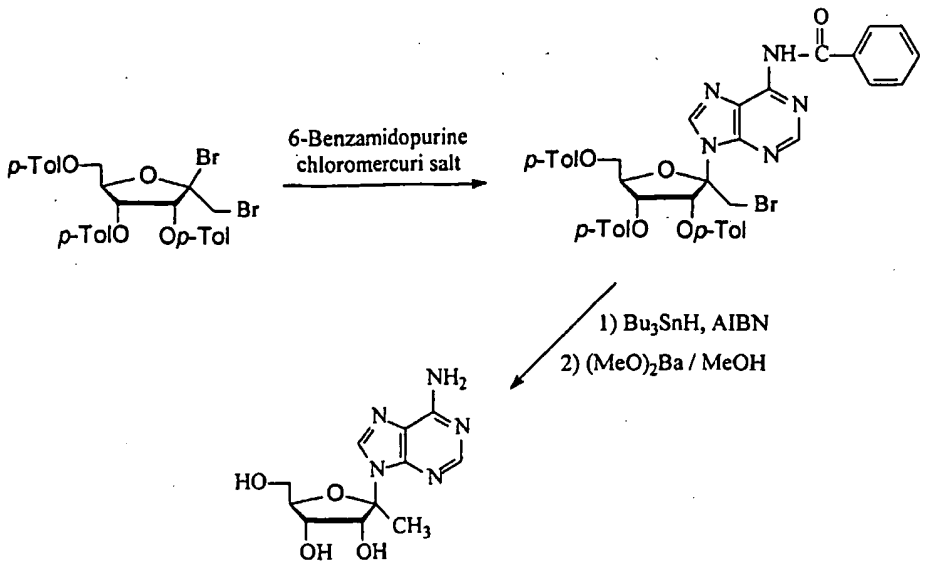
The present invention is described by way of illustration, in the following examples. It will be understood by one of ordinary skill in the art that these examples are in no way limiting and that variations of detail can be made without departing from the spirit and scope of the present invention.

EXAMPLE 1: PREPARATION OF 1'-C-METHYLRIBOADENINE VIA 6-AMINO-9-(1-DEOXY-β-D-PSICOFURANOSYL)PURINE

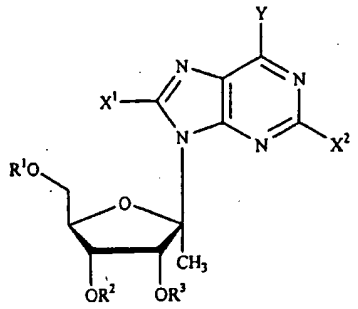
Melting points were determined on a Mel-temp II apparatus and are uncorrected. NMR spectra were recorded on a Bruker 400 AMX spectrometer at 400 MHz for ^{1}H NMR and 100 MHz for ^{13}C NMR with TMS as internal standard. Chemical shifts (δ) are reported in parts per million (ppm), and signals are reported as s (singlet), d (doublet), t (triplet), q (quartet), m (multiplet), or bs (broad singlet). IR spectra were measured on a Nicolet 510P FT-IR spectrometer. Mass spectra were recorded on a Micromass Autospec high-resolution mass spectrometer. TLC were performed on Uniplates (silica gel) purchased from Analtech Co. Column chromatography was performed using either silica gel-60 (220-440 mesh) for flash chromatography or silica gel G (TLC grade, > 440 mesh) for vacuum flash column chromatography. UV spectra were obtained on a Beckman DU 650 spectrophotometer. Elemental analysis was performed by Atlantic Microlab, Inc., Norcross, GA, or Galbraith Laboratories, Inc., Knoxville, TN. HPLC was performed with a Waters HPLC system (Millipore Corporation, Milford, MA) equipped with a Model 600 controller, a Model 996 photodiode array detector and a Model 717 plus autosampler. Millennium 2010 software was used for system control, data acquisition and processing. A chiralyser polarimetric detector, Perkin-Elmer Model 241MC polarimeter (Wilton, CT), was used for the determination of optical rotations.

The title compound can be prepared according to a published procedure (J. Farkas, and F. Sorm, "Nucleic acid components and their analogues. XCIV. Synthesis of 6-amino-9-(1-deoxy-β-D-psicofuranosyl)purine", *Collect. Czech. Chem. Commun.* **1967**, 32, 2663-2667. J. Farkas", *Collect. Czech. Chem. Commun.* **1966**, 31, 1535) **(Scheme 10)**.

Scheme 10



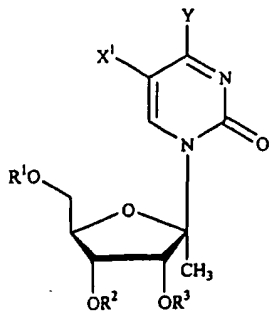
In a similar manner, but using the appropriate sugar and pyrimidine or purine bases, the following nucleosides of Formula I are prepared.



(I)

wherein R^1, R^2, R^3, X^1, X^2, and Y are defined in Table 1.

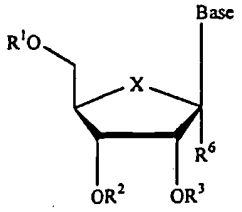
Alternatively, the following nucleosides of Formula IV are prepared, using the appropriate sugar and pyrimidine or purine bases.



(IV)

wherein R^1, R^2, R^3, X^1, Y are defined in Table 2.

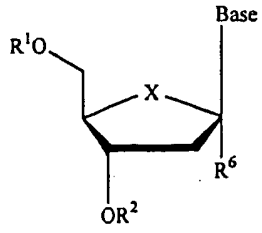
Alternatively, the following nucleosides of Formula VII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(VII)

wherein R^1, R^2, R^3, R^6, X, and Base are defined in Table 3.

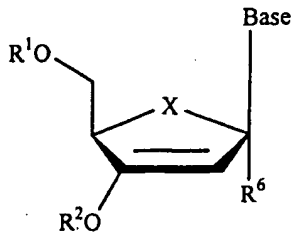
Alternatively, the following nucleosides of Formula VIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(VIII)

wherein R^1, R^2, R^6, X, and Base are defined in Table 4.

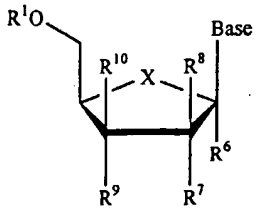
Alternatively, the following nucleosides of Formula XXI are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XXII)

wherein R^1, R^2, R^6, X and Base are defined in Table 5.

Alternatively, the following nucleosides of Formula XIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



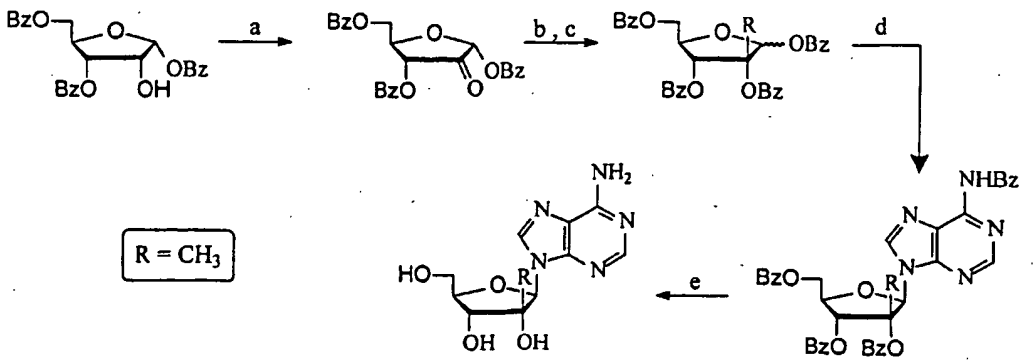
(XIII)

wherein R^1, R^6, R^7, R^8, X, Base, R^{10} and R^9 are defined in Table 6.

EXAMPLE 2: PREPARATION OF 2'-C-METHYLRIBOADENINE

The title compound was prepared according to a published procedure (R.E. Harry-O'kuru, J.M. Smith, and M.S. Wolfe, "A short, flexible route toward 2'-C-branched ribonucleosides", *J.Org. Chem.* **1997**, 62, 1754-1759) (**Scheme 11**).

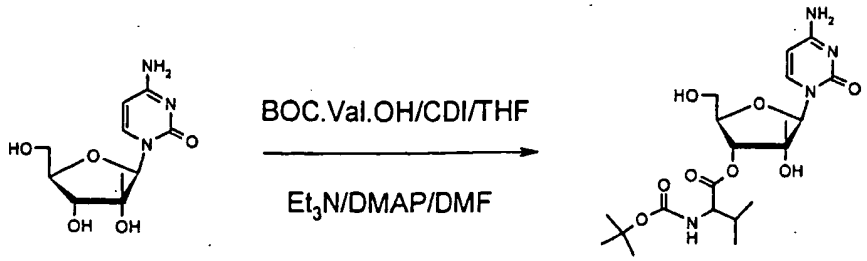
Scheme 11a



(a) Dess-Martin periodinane; (b) MeMgBr / $TiCl_4$; (c) BzCl, DMAP, Et_3N; (d) bis(trimethylsilyl)acetamide, N^6-benzoyl adenine, TMSOTf; (e) NH_3 / MeOH

The 3'-prodrug of the 2'-branched nucleoside was prepared according to published procedure (*Synthetic Communications*, **1978**, *8*(5), 327-333; *J. Am. Chem. Soc.*, **1999**, *121*(24), 5661-5664). Alternatively, the 2'-branched nucleoside can be esterified without protection (**Scheme 11b**). Carbonyldiimidazole (377 mg, 2.33 mmol) was added to a solution of N-(tert-butoxycarbonyl)-L-valine (507 mg, 2.33 mmol) in 15 mL of anhydrous tetrahydrofuran. The mixture was stirred at 20 °C for one hour and at 50 °C for 10 minutes and then added to a solution of 4-Amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidine-2-one (500 mg, 1.95 mmol), 4-(dimethylamino)pyridine (25 mg, 0.195 mmol), triethylamine (5 mL) in anhydrous N,N-dimethylformamide (10 mL), which is also stirring at 50 °C. The reaction mixture was stirred at 50 °C for one hour and then examined by HPLC*. HPLC analysis indicated the formation of 52% of the desired ester, 17% of starting material in addition to undesired by-products. The 3'-OH of 4-amino-1-(3,4-dihydroxy-5-hydroxymethyl-3-methyl-tetrahydro-furan-2-yl)-*1H*-pyrimidine-2-one tends to react selectively when coupled with BOC-Val.

Scheme 11b



The product was analyzed by HPLC using a reverse phase column: Waters part # WAT086344; Nova-Pak C18, 60Å pore size, 4μm particle size, 3.9 x 150 mm. Chromatograms were generated using a Waters 2695 HPLC and 996 PDA detector. Mobile Phase: HPLC grade acetonitrile and water were bought from JT Baker and 1M solution of triethylammonium acetate from Fluka.

Flow rate: 1.00 mL/min. of an acetonitrile / 20mM aqueous triethylammonium acetate buffer gradient as described below.

System is equilibrated for five minutes between runs.

Wave length: 272 nm.

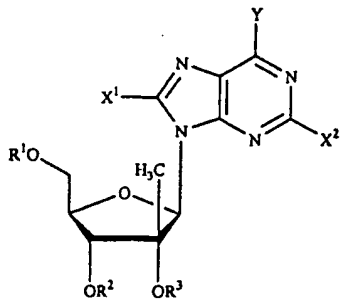
Table D: Column Specifications

Time	% Acetonitrile	% Buffer
0.00	0.00	100.0
15.00	80.0	20.0
30.00	80.0	20.0

Table E: Description of compounds vs. retention times:

Compound	RETENTION TIME (IN MINUTES)
Desired ester	8.3
DMAP	3.7 (Broad Peak)
Starting material	2.7

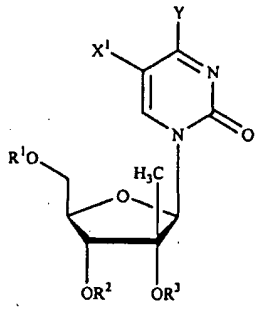
In a similar manner, but using the appropriate sugar and pyrimidine or purine bases, the following nucleosides of Formula II are prepared.



(II)

wherein R^2, R^3, X^1, X^2, and Y are defined in Table 7.

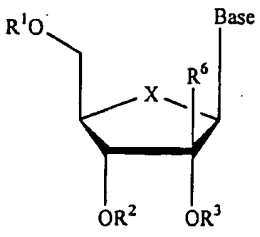
Alternatively, the following nucleosides of Formula V are prepared, using the appropriate sugar and pyrimidine or purine bases.



(V)

wherein R^1, R^2, R^3, X^1 and Y are defined in Table 8.

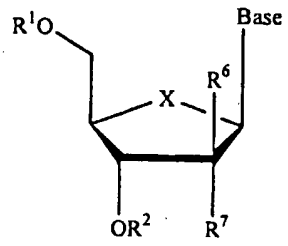
Alternatively, the following nucleosides of Formula IX are prepared, using the appropriate sugar and pyrimidine or purine bases.



(IX)

wherein R^1, R^2, R^3, R^6, X, and Base are defined in Table 9.

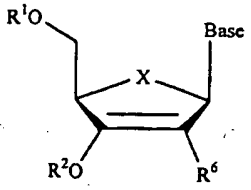
Alternatively, the following nucleosides of Formula X are prepared, using the appropriate sugar and pyrimidine or purine bases.



(X)

wherein R^1, R^2, R^7, R^6, X, and Base are defined in Table 10.

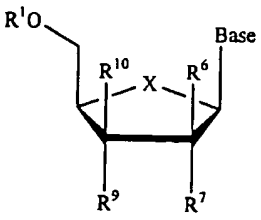
Alternatively, the following nucleosides of Formula XXII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XXII)

wherein R^1, R^2, R^6, X, and Base are defined in Table 11.

Alternatively, the following nucleosides of Formula XIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



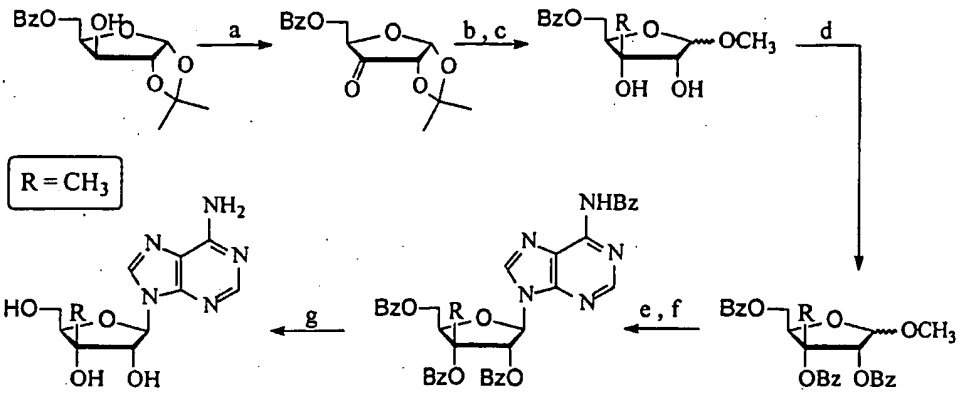
(XIII)

wherein R^1, R^6, R^7, X, Base, R^9 and R^{10} are defined in Table 12.

EXAMPLE 3: PREPARATION OF 3'-C-METHYLRIBOADENINE

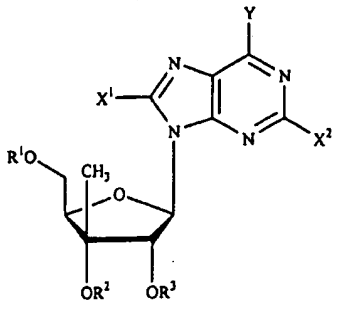
The title compound can be prepared according to a published procedure (R.F. Nutt, M.J. Dickinson, F.W. Holly, and E. Walton, "Branched-chain sugar nucleosides. III. 3'-C-methyladenine", *J.Org. Chem.* **1968**, 33, 1789-1795) (**Scheme 12**).

Scheme 12



(a) RuO_2 / $NaIO_4$; (b) MeMgI / $TiCl_4$; (c) HCl / MeOH / H_2O; (d) BzCl / pyridine; (e) AcBr, HBr / AcOH; (f) chloromercuri-6-benzamidopurine; (g) NH_3 / MeOH.

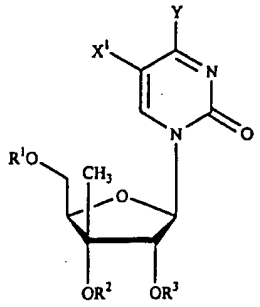
In a similar manner, but using the appropriate sugar and pyrimidine or purine bases, the following nucleosides of Formula III are prepared.



(III)

wherein R^1, R^2, R^3, X^1, X^2, and Y are defined in Table 13.

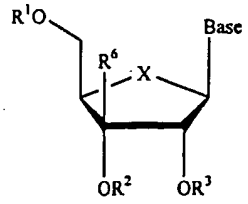
Alternatively, the following nucleosides of Formula VI are prepared, using the appropriate sugar and pyrimidine or purine bases.



(VI)

wherein R^1, R^2, R^3, X^1, and Y are defined in Table 14.

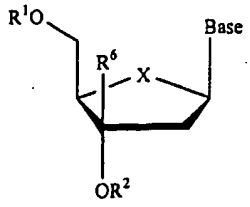
Alternatively, the following nucleosides of Formula XI are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XI)

wherein R^1, R^2, R^3, R^6, X, and Base are defined in Table 15.

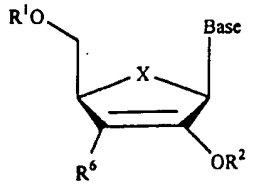
Alternatively, the following nucleosides of Formula XII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XII)

wherein R^1, R^2, R^6, X and Base are defined in Table 16.

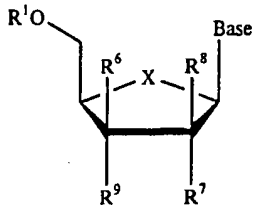
Alternatively, the following nucleosides of Formula XXIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XXIII)

wherein R^1, R^2, R^6, X and Base are defined in Table 17.

Alternatively, the following nucleosides of Formula XV are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XV)

wherein R^1, R^6, R^7, X, Base, R^8 and R^9 are defined in Table 18.

EXAMPLE 4: PREPARATION OF 1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE (AA)

The title compound can be prepared according to a published procedure (Leonard, N. J.; Carraway, K. L. "5-Amino-5-deoxyribose derivatives. Synthesis and use in the preparation of "reversed" nucleosides" J. Heterocycl. Chem. 1966, *3*, 485-489).

A solution of 50.0 g (0.34 mole) of dry D-ribose in 1.0 L of acetone, 100 mL of 2,2-dimethoxypropane, 200 mL of methanol containing 20 mL of methanol saturated with hydrogen chloride at 0°C was stirred overnight at room temperature. The resulting solution was neutralized with pyridine and evaporated under reduced pressure. The resulting oil was partitioned between 400 mL of water and 400 mL of methylene chloride. The water layer was extracted twice with methylene chloride (400 mL). The combined organic extracts were dried over sodium sulfate and evaporated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in methylene chloride] to give pure **AA** (52.1 g, 75%) as a yellow syrup. ^{1}H-NMR ($CDCl_3$): δ 5.00 (s, 1H, H-1), 4.86 (d, 1H, H-2, J_{2-3} = 5.9 Hz), 4.61 (d, 1H, H-3, J_{3-2} = 5.9 Hz), 4.46 (t, 1H, H-4, J_{4-5} = 2.7 Hz), 3.77-3.61 (m, 2H, H-5 and H-5'), 3.46 (s, 1H, OCH_3), 3.0-2.4 (br s, 1H, OH-5), 1.51 (s, 3H CH_3), 1.34 (s, 3H CH_3); MS (matrix GT): FAB>0 *m/z* 173 (M-OCH3)$^+$.

EXAMPLE 5: PREPARATION OF 1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-PENTODIALDO-RIBOFURANOSE (BB)

The title compound can be prepared according to a published procedure (Jones, G. H.; Moffatt, J. G. Oxidation of carbohydrates by the sulfoxide-carbodiimide and related methods. Oxidation with dicyclohexylcarbodiimide-DMSO, diisopropylcarbodiimide-DMSO, acetic anhydride-DMSO, and phosphorus pentoxide-DMSO: in *Methods in Carbohydrate Chemistry*; Whisler, R. L. and Moffatt, J. L. Eds; Academic Press: New York, 1972; 315-322).

Compound **AA** was co-evaporated twice with anhydrous pyridine. Dicyclohexylcarbodi-imide (DCC, 137.8 g, 0.67 mol) was added to a solution of **AA** (68.2 g, 0.33 mole) in anhydrous benzene (670 mL), DMSO (500 mL) and pyridine (13.4 mL). To the resulting solution, cooled to 0°C, was added a solution of anhydrous crystalline orthophosphoric acid (16.4 g, 0.167 mmol) in anhydrous DMSO (30 mL). The mixture was

stirred for 1.5 hours at 0°C and 18 hours at room temperature under argon atmosphere, diluted with ethyl acetate (1000 mL). A solution of oxalic acid dihydrate (63.1 g, 038 mol) in DMSO (30 mL) was added and the reaction mixture was stirred at room temperature during 1 hour and then filtered to eliminate precipitated dicyclohexylurea (DCU). The filtrate was concentrated to a volume of about 600 mL under reduced pressure and neutralized with a saturated aqueous sodium hydrogen carbonate solution (400 mL). Brine (200 mL) was added and the organic layer was extracted with ethyl acetate (4x 1000 mL). The combined organic layers were concentrated to a volume of about 2000 mL, washed with a saturated aqueous sodium hydrogen carbonate solution (2x 700 mL), and with brine (2x 700 mL) before being dried over sodium sulfate and evaporated under reduced pressure. A small fraction of the crude residue was purified on silica gel chromatography [eluent: chloroform/ethyl ether, 8:2] in order to confirm the structure of **BB** which was obtained as a pale yellow solid. ^{1}H-NMR ($CDCl_3$): δ 9.61 (s, 1H, H-5), 5.12 (s, 1H, H-1), 5.08 (d, 1H, H-2, J_{2-3} = 5.9 Hz), 4.53 (d, 1H, H-3, J_{3-2} = 6.0 Hz), 4.51 (s, 1H, H-4), 3.48 (s, 1H, OCH_3), 1.56 (s, 3H CH_3), 1.36 (s, 3H CH_3); MS (matrix GT): FAB>0 *m/z* 203 $(M+H)^+$, 171 $(M-OCH_3)^+$.

EXAMPLE 6: PREPARATION OF 4-C-HYDROXYMETHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE (CC)

The title compound can be prepared according to a published procedure (Leland, D. L.; Kotick, M. P. *Carbohydr. Res.* **1974**, *38*, C9-C11; Jones, G. H.; Taniguchi, M., et al. *J. Org. Chem.* **1979**, *44*, 1309-1317; Gunic, E.; Girardet, J.-L.; et al. *Bioorg. Med. Chem.* **2001**, *9*, 163-170).

To a solution of the crude material (**BB**) obtained above and 37% aqueous formaldehyde (167 mL) in dioxane (830 mL) was added aqueous sodium hydroxyde (2N, 300 mL). The mixture was stirred at room temperature for 4 hours and neutralized by addition of Dowex 50 W X 2 (H^+ form). The resin was filtered, washed with methanol, and the combined filtrates were concentrated to dryness and coevaporated several times with absolute ethanol. Sodium formate which was precipitated from absolute ethanol was removed by filtration, the filtrate was concentrated to dryness and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-4%) in chloroform] to give pure **CC** (42.2 g, 54% from **AA**), which was recrystallized from cyclohexane. Mp = 94-95 (dec.) (lit.94-96.5; 97-98 : Refs :3,4), ^{1}H-NMR (DMSO-d_6): δ 4.65 (s, 1H, H-1), 4.44-4.37 (m, 3H, H-2, H-3 and OH-6), 4.27 (t, 1H, OH-5, J = 5.6 Hz, J = 6.0 Hz), 3.42-3.34 (m, 2H,

H-5 and H-6) 3.29 (dd, 1H, H-5', $J_{5'\text{-OH}}$ = 5.4 Hz, J5-5' = 11.4 Hz), 3.11 (dd, 1H, H-6', $J_{6'\text{-OH}}$ = 5.7 Hz, J6-6' = 10.9 Hz), 3.03 (s, 3H, OCH_3), 1.48 (s, 3H CH_3), 1.05 (s, 3H CH_3); MS (matrix GT): FAB>0 *m/z* 469 $(2M+H)^+$, 235 $(M+H)^+$, 203 $(M\text{-}OCH_3)$+ FAB<0 *m/z* 233 $(M-H)^-$.

EXAMPLE 7: PREPARATION OF 6-O-MONOMETHOXYTRITYL-4-C-HYDROXYMETHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE (DD)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; et al. *Bioorg. Med. Chem.* **2001**, *9*, 163-170).

To a solution of **CC** (41.0 g, 175 mmol) in pyridine (700 ml) was added by portions dimethoxytrityl chloride (60.5 g, 178 mmol) at 4°C. The reaction mixture was stirred for 3 hours at room temperature. After addition of methanol, the reaction mixture was concentrated (200 ml) and then dissolved with ethyl acetate (2 L). The organic layer was washed with a 5% aqueous sodium hydrogen carbonate solution, with water and dried over sodium sulfate and then evaporated to dryness. Purification by silica gel column chromatography [eluent: ethyl acetate / hexane 15/85] afforded pure **DD** (63.0 g, 68%) as a syrup. ^{1}H-NMR ($CDCl_3$): δ 7.5-6.9 (m, 13H, MMTr), 4.89 (s, 1H, H-1), 4.72-4.62 (m, 3H, H-2, H-3 and OH-5), 3.82 (dd, 1H, H-5, $J_{5\text{-OH}}$ = 5.5 Hz, J5-5' = 10.5 Hz), 3.79 (s, 6H, OCH3), 3.54 (dd, 1H, H-5', $J_{5'\text{-OH}}$ = 4.9 Hz, $J_{5'\text{-}5}$ = 10.5 Hz), 3.31 (s, 3H, OCH_3), 3.24 (d, 1H, H-6, $J_{6\text{-}6'}$ = 9.2 Hz), 3.13 (d, 1H, H-6', $J_{6'\text{-}6}$ = 9.2 Hz), 1.24 (s, 3H CH_3), 1.15 (s, 3H CH_3); MS (matrix GT): FAB>0 m/z 303 $(DMTr)^+$.

EXAMPLE 8: PREPARATION OF 5-O-BENZOYL-4-C-HYDROXYMETHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBO-FURANOSE (EE)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; Pietrzkowski, Z.; Esler, C.; Wang, G. "Synthesis and cytotoxicity of 4'-C-and 5'-C-substituted Toyocamycins" Bioorg. Med. Chem. **2001**, *9*, 163-170).

To a solution of **DD** (2.51 g, 4.68 mmol) in anhydrous pyridine (37 mL) was added under argon benzoyl chloride (1.09 mL, 9.36 mmol) and the reaction mixture was stirred for 13 hours at to room temperature. Then the reaction was cooled to 0°C and stopped with ice-cold water (100 mL). The water layer was extracted with methylene chloride (3□ 200 mL). The combined organic layers were washed with a saturated aqueous sodium hydrogen carbonate solution (2x 150 mL), with water (1x 150 mL) and then dried over sodium sulfate

and evaporated under reduced pressure. The residue was dissolved in 80% acetic acid (70.2 mL) and the mixture was stirred at room temperature for 3hr and concentrated to dryness. Purification by silica gel column chromatography [eluent: chloroform] afforded pure **EE** (1.40 g, 88%) as a syrup. ^{1}H-NMR ($CDCl_3$): δ 8.1-7.4 (m, 5H, C_6H_5CO), 5.08 (s, 1H, H-1), 4.77 (dd, 2H, H-2 and H-3, J = 6.1 Hz, J = 8.2 Hz), 4.51 (q, 2H, H-5 and H-5', J = 11.5 Hz, $J_{5-5'}$ = 23.8 Hz), 3.91 (t, 2H, H-6 and H-6', J = 12.3 Hz), 4.38 (s, 1H, OCH_3), 2.2-1.8 (brs, 1H, OH-6), 1.57 (s, 3H CH_3), 1.38 (s, 3H CH_3); MS (matrix GT): FAB>0 *m/z* 677 $(2M+H)^+$, 339 $(M+H)^+$, 307 $(M-OCH_3)^+$, 105 $(C_6H_5CO)^+$ FAB<0 *m/z* 121 $(C_6H_5CO_2)^-$.

EXAMPLE 9: PREPARATION OF 5-O-BENZOYL-4-C-METHYL-1-O-METHYL-2,3-O-ISOPROPYLIDENE-β-D-RIBOFURANOSE (FF)

The title compound can be prepared according to a published procedure (Gunic, E.; Girardet, J.-L.; etal. *Bioorg. Med. Chem.* **2001**, *9*, 163-170).

A solution of **EE** (37.6 g, 0.111 mol), 4-dimethylaminopyridine (DMAP, 40.7 g, 0.333 mol) and phenoxythiocarbonyle chloride in anhydrous acetonitrile (1000 mL) was stirred at room temperature for 1 hour and concentrated to dryness. The residue was dissolved in methylene chloride (500 mL) and successively washed with 0.2 M hydrochloric acid (2x 500 mL) and water (500 mL) before being dried over sodium sulfate, evaporated under reduced pressure and coevaporated several times with anhydrous toluene. The crude material was dissolved in anhydrous toluene (880 mL) and tris(trimethylsilyl)silane (TMSS, 42.9 mL, 0.139 mol), and 1,1'-azobis(cyclohexanecarbonitrile) (ACCN, 6.8 g, 27.8 mmol) were added. The reaction mixture was stirred under reflux for 45 minutes, cooled to room temperature and concentrated under reduced pressure. The resulting residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (5-20%) in petroleum ether] to give pure **FF** (26.4 g, 74%) as a pale yellow syrup. ^{1}H-NMR (DMSO-d_6): δ 8.0-7.5 (m, 5H, C_6H_5CO), 4.85 (s, 1H, H-1), 4.63 (dd, 2H, H-2 and H-3, J = 6.1 Hz, J = 11.6 Hz), 4.24 (d, 1H, H-5, $J_{5-5'}$ = 11.1 Hz), 4.10 (d, 1H, H-5', $J_{5'-5}$ = 11.1 Hz), 3.17 (s, 1H, OCH_3), 1.38 (s, 3H CH_3), 1.30 (s, 3H CH_3), 1.25 (s, 3H CH_3); MS (matrix GT): FAB>0 *m/z* 291 $(M-OCH_3)^+$, 105 $(C_6H_5CO)^+$ FAB<0 *m/z* 121 $(C_6H_5CO_2)^-$.

EXAMPLE 10: PREPARATION OF 5-O-BENZOYL-4-C-METHYL-1,2,3-O-ACETYL-α,β-D-RIBOFURANOSE (GG)

Compound **FF** (22.5 g, 70 mmol) was suspended in a 80% aqueous acetic acid solution (250 mL). The solution was heated at 100°C for 3 hours. The volume was then reduced by half and coevaporated with absolute ethanol and pyridine. The oily residue was dissolved in pyridine (280 mL) and then cooled at 0°C. Acetic anhydride (80 mL) and 4-dimethylamino-pyridine (500 mg) were added. The reaction mixture was stirred at room temperature for 3 hours and then concentrated under reduced pressure. The residue was dissolved with ethyl acetate (1 L) and successively washed with a saturated aqueous sodium hydrogen carbonate solution, a 1 M hydrochloric acid and water. The organic layer was dried over sodium sulfate and evaporated under reduced pressure. The resulting residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (30-40%) in petroleum ether] to give pure **GG** (16.2 g, 60%) as a pale yellow syrup. A small fraction of the material was re-purified on silica gel chromatography [same eluent: system] in order separate the α and the β anomers.

α anomer: ^{1}H-NMR (DMSO-d_6): δ 8.1-7.5 (m, 5H, C_6H_5CO), 6.34 (pt, 1H, H-1, J = 2.4 Hz, J = 2,1 Hz), 5.49 (m, 2H, H-2 and H-3), 4.33 (q, 2H, H-5 and H-5', J = 11.6 Hz, J = 18.7 Hz), 2.15 (s, 3H, CH_3CO_2), 2.11 (s, 3H, CH_3CO_2), 2.07 (s, 3H, CH_3CO_2), 1.37 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 335 $(M\text{-}CH_3CO_2^-)^+$, 275 $(M\text{-}CH_3CO_2^-+H)^+$,105 $(C_6H_5CO)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 121 $(C_6H_5CO_2)^-$, 59 $(CH_3CO_2)^-$.

β anomer: ^{1}H-NMR (DMSO-d_6): δ 8.1-7.5 (m, 5H, C_6H_5CO), 5.99 (s, 1H, H-1), 5.46 (d, 1H, H-2, $J_{2\text{-}3}$ = 5.3 HZ), 5.30 (d, 1H, H-2, $J_{2\text{-}3}$ = 5.3 Hz), 4.39 (d, 1H, H-5, $J_{5\text{-}5'}$ = 11.7 Hz), 4.19 (d, 1H, H-5', $J_{5'\text{-}5}$ = 11.7 Hz), 2.10 (s, 3H, CH_3CO_2), 2.06 (s, 3H, CH_3CO_2), 2.02 (s, 3H, CH_3CO_2), 1.30 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 335 $(M\text{-}CH_3CO_2^-)^+$, 275 $(M\text{-}CH_3CO_2^-+H)^+$,105 $(C_6H_5CO)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 121 $(C_6H_5CO_2)^-$, 59 $(CH_3CO_2)^-$.

EXAMPLE 11: PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL-β-D-RIBOFURANOSYL)URACIL (HH)

A suspension of uracil (422 mg, 3.76 mmol) was treated with hexamethyldisilazane (HMDS, 21 mL) and a catalytic amount of ammonium sulfate during 17 hours under reflux. After cooling to room temperature, the mixture was evaporated under reduced pressure, and the residue, obtained as a colorless oil, was diluted with anhydrous 1,2-dichloroethane (7.5

mL). To the resulting solution was added **GG** (0.99 g, 2.51 mmol) in anhydrous 1,2-dichloroethane (14 mL), followed by addition of trimethylsilyl trifluoromethanesulfonate (TMSTf, 0.97 mL, 5.02 mmol). The solution was stirred for 2.5 hours at room temperature under argon atmosphere, then diluted with chloroform (150 mL), washed with the same volume of a saturated aqueous sodium hydrogen carbonate solution and finally with water (2x 100 mL). The organic phase was dried over sodium sulfate, then evaporated under reduced pressure. The resulting crude material was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-2%) in chloroform] to afford pure **HH** (1.07 g, 95%) as a foam. ^{1}H-NMR (DMSO-d6): δ 11.48 (s, 1H, NH), 8.1-7.5 (m, 6H, C_6H_5CO and H-6), 5.94 (d, 1H, H-1', $J_{1'-2'}$ = 3.3 Hz), 5.61 (m, 3H, H-5, H-2' and H-3'), 4.47 (d, 1H, H-5', $J_{5'-5''}$ = 11.7 Hz), 4.35 (d, 1H, H-5", $J_{5''-5'}$ = 11.7 Hz), 2.12 (s, 3H, CH_3CO_2), 2.09 (s, 3H, CH_3CO_2), 1.38 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 893 $(2M+H)^+$, 447 $(M+H)^+$, 335 $(S)^+$, 113 $(BH_2)^+$, 105 $(C_6H_5CO)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 891 $(2M-H)^-$, 445 $(M-H)^-$, 121 $(C_6H_5CO_2)^-$, 111 $(B)^-$, 59 $(CH_3CO_2)^-$.

EXAMPLE 12: PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)URACIL (II)

The title compound can be prepared according to a published procedure from **HH** (Waga, T.; Nishizaki, T.; et al. *Biosci. Biotechnol. Biochem.* **1993**, *57*, 1433-1438).

A solution of **HH** (610 mg, 1.37 mmol) in methanolic ammonia (previously saturated at -10°C) (27 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2x 40 mL), concentrated under reduced pressure and coevaporated several times with absolute ethanol. Recrystallization from a mixture absolute ethanol/methanol gave **II** (215 mg, 61%) as a colorless and crystalline solid. Mp: 226-227 (dec.) (lit. 227 : Ref.6); UV (H_2O): λ_{max} = 259 nm (ε = 10100), λ_{min} = 228 nm (ε = 2200); HPLC 99.56%, ^{1}H-NMR (DMSO-d_6): δ 11.28 (s, 1H, NH), 7.89 (d, 1H, H-6, J_{6-5} = 8.1 Hz), 5.80 (d, 1H, H-1', $J_{1'-2'}$ = 7.1 Hz), 5.64 (d, 1H, H-5, J_{5-6} = 8.1 Hz), 5.24 (d, 1H, OH-2', $J_{OH-2'}$ = 6.5 Hz), 5.18 (t, 1H, OH-5' $J_{OH-5'}$ = $J_{OH-5''}$ = 5.2 Hz), 5.01 (d, 1H, OH-3', $J_{OH-3'}$ = 5.0 Hz), 4.28 (dd, 1H, H-2', J = 6.5 Hz, J = 12.2 Hz), 3.90 (t, 1H, H-3', $J_{3'-2'}$ = $J_{3'-OH'}$ = 5.1 Hz), 3.30 (m, 2H, H-5' and H-5"), 1.06 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 517 $(2M+H)^+$, 259 $(M+H)^+$, 147 $(S)^+$ FAB<0 m/z 515 $(2M-H)^-$, 257 $(M-H)^-$.

EXAMPLE 13: PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL-β-D-RIBOFURANOSYL)4-THIO-URACIL (JJ)

Lawesson's reagent (926 mg, 2.29 mmol) was added under argon to a solution of **HH** (1.46 g, 3.27 mmol) in anhydrous 1,2-dichloroethane (65 mL) and the reaction mixture was stirred overnight under reflux. The solvent was evaporated under reduced pressure and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in chloroform] to give pure **JJ** (1.43 g, 95%) as a yellow foam. ^{1}H-NMR (DMSO-d_6): δ 12.88 (s, 1H, NH), 8.1-7.5 (m, 6H, C_6H_5CO and H-6), 6.27 (d, 1H, H-1', $J_{1'-2'}$ = 7.51 Hz), 5.91 (br s, 1H, H-5) 5.64 (m, 2H, H-2' and H-3'), 4.47 (d, 1H, H-5', $J_{5'-5''}$ = 11.7 Hz), 4.36 (d, 1H, H-5', $J_{5'-5''}$ = 11.7 Hz), 2.11 (s, 3H, CH_3CO_2), 2.09 (s, 3H, CH_3CO_2), 1.39 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 925 $(2M+H)^+$, 463 $(M+H)^+$, 335 $(S)^+$, 129 $(BH_2)^+$, 105 $(C_6H_5CO)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 461 $(M-H)^-$, 127 $(B)^-$, 121 $(C_6H_5CO_2)^-$, 59 $(CH_3CO_2)^-$.

EXAMPLE 14: PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)4-THIO-URACIL (KK)

A solution of **JJ** (500 mg, 1.08 mmol) in methanolic ammonia (previously saturated at -10°C) (27 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 ml) and water (40 mL). The aqueous layer was washed with methylene chloride (2x 40 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (5-7%) in methylene chloride] to give pure **KK** (188 mg, 63%), which was lyophilized. Mp: 65-70 (dec.); UV (methanol): λ_{max} = 330 nm (ε = 20000) 246 nm (ε = 4200), λ_{min} = 275 nm (ε = 1500); ^{1}H-NMR (DMSO-d_6): δ 12.51 (brs, 1H, NH), 7.81 (d, 1H, H-6, J_{6-5} = 7.6 Hz), 6.30 (d, 1H, H-5, J_{5-6} = 7.5 Hz), 5.77, (d, 1H, H-1', $J_{1'-2'}$ = 6.7 Hz), 5.32 (d, 1H, OH-2', $J_{OH-2'}$ = 6.1 Hz), 5.20 (t, 1H, OH-5' $J_{OH-5'}$ = $J_{OH-5''}$ = 5.2 Hz), 5.03 (d, 1H, OH-3', $J_{OH-3'}$ = 5.2 Hz), 4.17 (dd, 1H, H-2', J = 6.2 Hz, J = 12,0 Hz), 3.89 (t, 1H, H-3', $J_{3'-2'}$ = $J_{3'-OH'}$ = 5.1 Hz), 3.35 (m, 2H, H-5' and H-5"), 1.02 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 275 $(M+H)^+$, 147 $(S)^+$, 129$(BH_2)^+$ FAB<0 *m/z* 547 $(2M-H)^-$, 273 $(M-H)^-$ 127 $(B)^-$.

EXAMPLE 15: PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)CYTOSINE, HYDROCHLORIC FORM (LL)

Compound **KK** (890 mg, 1.93 mmol) was treated with methanolic ammonia (previously saturated at -10°C), (12 mL) at 100°C in a stainless-steel bomb for 3 hours, then cooled to room temperature. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (40 mL) and water (40 mL). The aqueous layer was washed with methylene chloride (2x 40 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: methylene chloride/ methanol/ammonium hydroxide 65:30:5]. The collected fractions were evaporated under reduced pressure and in absolute ethanol (6.3 mL). To the solution was added a 2N hydrochloric acid solution (1.5 mL) and the mixture was stirred before being concentrated under reduced pressure. The procedure was repeated twice and **LL** was precipitated from absolute ethanol. Mp: 213-214 (dec.); UV (methanol): λ_{max} = 280 nm (ε = 9800), λ_{min} = 245 nm (ε = 3600); ^{1}H-NMR (DMSO-d_6): δ 9.82 (s, 1H, NH_2), 8.72 (s, 1H, NH_2), 8.34 (d, 1H, H-6, J_{6-5} = 7.8 Hz), 6.21 (d, 1H, H-5, J_{5-6} = 7.8 Hz), 5.83 (d, 1H, H-1', $J_{1'-2'}$ = 5.8 Hz), 4.22 (d, 1H, OH-2', $J_{OH-2'}$ = 6.5 Hz), 5.6-4.7 (m, 3H, OH-2', OH-3' and OH-5'), 4.28 (t, 1H, H-2', J = 5.6 Hz), 3.99 (d, 1H, H-3', J = 5.3 Hz), 3.43 (m, 2H, H-5' and H-5''), 1.14 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 515 $(2M+H)^+$, 258 $(M+H)^+$, 147 $(S)^+$, 112 $(BH_2)^+$ FAB<0 m/z 256 $(M-H)^-$.

EXAMPLE 16: PREPARATION OF 1-(5-O-BENZOYL-4-C-METHYL-2,3-O-ACETYL-β-D-RIBOFURANOSYL)THYMINE (MM)

A suspension of thymine (384 mg, 3.04 mmol) was treated with hexamethyldisilazane (HMDS, 17 mL) and a catalytic amount of ammonium sulfate overnight under reflux. After cooling to room temperature, the mixture was evaporated under reduced pressure, and the residue, obtained as a colorless oil, was diluted with anhydrous 1,2-dichloroethane (6 mL). To the resulting solution was added **GG** (1.0 g, 2.53 mmol) in anhydrous 1,2-dichloroethane (14 mL), followed by addition of trimethylsilyl trifluoromethanesulfonate (TMSTf, 0.98 mL, 5.06 mmol). The solution was stirred for 5 hours at room temperature under argon atmosphere, then diluted with chloroform (150 mL), washed with the same volume of a saturated aqueous sodium hydrogen carbonate solution and finally with water (2x 100 mL). The organic phase was dried over sodium sulfate, then evaporated under reduced pressure.

The resulting crude material was purified by silica gel column chromatography [eluent: 2% of methanol in chloroform] to afford pure **MM** (1.09 g, 94%) as a foam. ^{1}H-NMR (DMSO-d_6): δ 11.47 (s, 1H, NH), 8.1-7.4 (m, 6H, C_6H_5CO and H-6), 5.98 (d, 1H, H-1', J = 5.0 Hz), 5.5-5.7 (m, 2H, H-2' and H-3'), 4.42 (dd, 2H, H-5' and H-5", J = 11.6 Hz, J = 31.6 Hz), 2.12 (s, 3H, CH_3CO_2), 2.09 (s, 3H, CH_3CO_2), 1.60 (s, 1H, CH_3), 1.37 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 461 $(M+H)^+$, 335 $(S)^+$, 105 $(C_6H_5CO)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 459 $(M-H)^-$, 125 $(B)^-$, 121 $(C_6H_5CO_2)^-$, 59 $(CH_3CO_2)^-$.

EXAMPLE 17: PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)THYMINE (NN)

The title compound can be prepared according to a published procedure from **MM** (Waga, T.; Nishizaki, T.; et al. *Biosci. Biotechnol. Biochem.* **1993**, *57*, 1433-1438).

A solution of **MM** (1.09 g, 2.37 mmol) in methanolic ammonia (previously saturated at -10°C) (60 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (60 mL) and water (60 mL). The aqueous layer was washed with methylene chloride (2x 60 mL), concentrated under reduced pressure and coevaporated several times with absolute ethanol. Recrystallization from methanol gave **NN** (450 mg, 70%) as a colorless and crystalline solid. Mp: 258-260 (dec.) (lit. 264 : Ref.6); UV (H_2O): λ_{max} = 264.4 nm (ε = 8800), λ_{min} = 232.0 nm (ε = 2200); ^{1}H-NMR (DMSO-d_6): δ 11.29 (s, 1H, NH), 7.75 (s, 1H, H-6), 5.82 (d, 1H, H-1', $J_{1'-2'}$ = 7.2 Hz), 5.19 (m, 2H, OH-2', OH-5'), 5.02 (d, 1H, OH-3', $J_{OH-3'}$ = 5.0 Hz), 4.21 (dd, 1H, H-2', J = 6.4 Hz, J = 12.3 Hz), 3.92 (t, 1H, H-3', $J_{3'-2'} = J_{3'-OH'}$ = 5.0 Hz), 3.30 (m, 2H, H-5' and H-5"), 1.78 (s, 3H, CH_3), 1.09 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 545 $(2M+H)^+$, 365 $(M+G+H)^+$, 273 $(M+H)^+$, 147 $(S)^+$, 127 $(B+2H)^+$, FAB<0 *m/z* 543 $(2M-H)^-$, 271 $(M-H)^-$, 125 $(B)^-$; $[\alpha]_D^{20}$ – 32.0 (c = 0.5 in H_2O, litt. -26.4).

EXAMPLE 18: PREPARATION OF 1-(5,2,3-TRI-O-ACETYL-4-C-METHYL-β-D-RIBOFURANOSYL)THYMINE (OO)

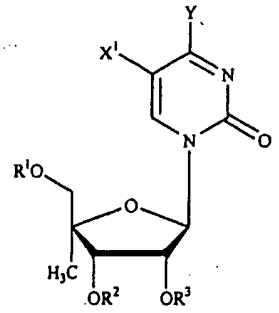
A solution of **NN** (200 mg, 0.735 mmol) in anhydrous pyridine (7.4 ml) was treated with acetic anhydride (1.2 mL) and stirred at room temperature for 3 hours. The solvent was evaporated under reduced pressure, and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (0-5%) in methylene chloride] to afford pure **OO** (0.400 g, quantitative yield) as a foam. ^{1}H-NMR (DMSO-d_6): δ 11.45 (s, 1H,

NH), 7.56 (s, 1H, H-6), 5.90 (d, 1H, H-1', $J_{1'-2'}$ = 4.8 Hz), 5.5-5.4 (m, 2H, H-2' and H-3'), 4.3-4.0 (m, 2H, H-5' and H-5''), 2.1-2.0 (m, 9H, 3 CH_3CO_2), 1.78 (s, 1H, CH_3), 1.20 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 797 $(2M+H)^+$, 399 $(M+H)^+$, 339 $(M-CH_3CO_2)^+$, 273 $(S)^+$, 127 $(BH_2)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 795 $(2M-H)^-$, 397 $(M-H)^-$, 355 $(M-CH_3CO)^-$, 125 $(B)^-$, 59 $(CH_3CO_2)^-$.

EXAMPLE 19: PREPARATION OF 1-(5,2,3-TRI-O-ACETYL-4-C-METHYL-β-D-RIBOFURANOSYL)-4-THIO-THYMINE (PP)

Lawesson's reagent (119 mg, 0.29 mmol) was added under argon to a solution of OO (0.167 g, 4.19 mmol) in anhydrous 1,2-dichloroethane (11 mL) and the reaction mixture was stirred overnight under reflux. The solvent was evaporated under reduced pressure and the residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (1-2%) in chloroform] to give pure PP (0.165 g, 95%) as a yellow foam. ^{1}H-NMR (DMSO-d_6): δ 12.81 (s, 1H, NH), 7.64 (s, 1H, H-6), 5.84(d, 1H, H-1', $J_{1'-2'}$ = 4.66 Hz), 5.5-5.4 (m, 2H, H-2' and H-3'), 4.11 (dd, 2H, H-5' and H-5'', J = 11.7 Hz, J = 31.3 Hz), 2.0-1.8 (m, 12H, 3 CH_3CO_2 and CH_3), 1.33 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 829 $(2M+H)^+$, 415 $(M+H)^+$, 273 $(S)^+$, 143 $(BH_2)^+$, 43 $(CH_3CO)^+$ FAB<0 *m/z* 827 $(2M-H)^-$, 413 $(M-H)^-$ 141 $(B)^-$, 59 $(CH_3CO_2)^-$.

In a similar manner, the following nucleosides of Formula XVII are prepared, using the appropriate sugar and pyrimidine bases.



(XVII)

wherein R^1, R^2, R^3, X^1 and Y are defined in Table 19.

EXAMPLE 20: PREPARATION OF 1-(4-C-METHYL-β-D-RIBOFURANOSYL)-5-METHYL-CYTOSINE (QQ), HYDROCHLORIDE FORM

Compound PP (0.160 g, 0.386 mmol) was treated with methanolic ammonia (previously saturated at -10°C), (10 mL) at 100°C in a stainless-steel bomb for 3 hours, then cooled to room temperature. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (30 mL) and water (30 mL). The aqueous layer was washed with methylene chloride (2x 30 mL), concentrated under reduced pressure. The crude material was purified by silica gel column chromatography [eluent: 20% methanol in methylene chloride] to afford 1-(4-C-methyl-β-D-ribofuranosyl)-5-methyl-cytosine (60 mg, 57%). This compound was dissolved in EtOH 100 (1.5 mL), treated with a 2N hydrochloric acid solution (0.3 mL), and the mixture was stirred before being concentrated under reduced pressure. The procedure was repeated twice and QQ was precipitated from absolute ethanol. Mp: 194-200 (dec.); UV (H_2O): λ_{max} = 275.6 nm (ε = 7300), λ_{min} = 255 nm (ε = 4700); HPLC 100%, ^{1}H-NMR (DMSO-d_6): δ 9.34 and 9.10 (2s, 2H, NH_2), 8.21 (s, 1H, H-6), 5.80 (d, 1H, H-1', $J_{1'-2'}$ = 6.0 Hz), 5.3-4.3 (m, 3H, OH-2', OH-3' and OH-5'), 4.21 (t, 1H, H-2', J= 5.7 Hz), 3.98 (d, 1H, H-3', J = 5.3 Hz), 3.5-3.3 (m, 2H, H-5' and H-5''), 1.97 (s, 3H, CH_3), 1.12 (s, 3H, CH_3).

EXAMPLE 21: PREPARATION OF O-6-DIPHENYLCARBAMOYL-N^2-ISOBUTYRYL-9-(2,3-DI-O-ACETYL-5-O-BENZOYL-4-C-METHYL-β-D-RIBOFURANOSYL)GUANINE (RR)

To a suspension of O-6-diphenylcarbamoyl-N^2-isobutyrylguanine (1.80 g, 4.33 mmol) in anhydrous toluene (20 mL) was added N,O-bis(trimethylsilyl)acetamide (1.92 mL, 7.9 mmol). The reaction mixture was allowed to warm under reflux for 1 hour. Compound GG (1.55 g, 3.93 mmol) was dissolved in toluene (10 mL) and trimethylsilyltrifluoromethanesulfonate (TMSTf) (915 mL, 4.72 mmol) was added. The mixture was heated under reflux for 30 minutes. The solution was then cooled to room temperature and neutralized with a 5% aqueous sodium hydrogen carbonate solution. The reaction mixture was diluted with ethyl acetate (200 mL). The organic phase was washed with a 5% aqueous sodium hydrogen carbonate solution (150 mL) and with water (2x 150 mL). The organic layer was dried over Na_2SO_4 and evaporated to dryness. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of diethyl ether (70-90%) in petroleum ether] to afford pure RR (1.62 g, 55%) as a foam.

EXAMPLE 22: PREPARATION OF 9-(4-C-METHYL-β-D-RIBOFURANOSYL) GUANINE (SS)

The title compound can be prepared according to a published procedure from **RR** (Waga, T.; Nishizaki, T.; et al. *Biosci. Biotechnol. Biochem.* **1993**, *57*, 1433-1438).

A solution of **RR** (1.50 g, mmol) in methanolic ammonia (previously saturated at -10°C) (20 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (60 mL) and water (60 mL). The aqueous layer was washed with methylene chloride (2x 60 mL), concentrated under reduced pressure. The residue was purified by an RP18 column chromatography [eluent water/acetonitrile 95/5] to afford pure **SS** (380 mg, 60%). Recrystallization from water gave S as a crystalline solid. Mp > 300 (dec.), UV (H_2O): λ_{max} = 252 nm (ε = 14500), ^{1}H-NMR (DMSO-d_6): δ 10.64 (s, 1H, NH), 7.95 (s, 1H, H-8), 6.45 (sl, 2H, NH_2), 5.68 (d, 1H, H-1', $J_{1'-2'}$ = 7.45 Hz), 5.31 (d, 1H, OH, OH-2',$J_{OH-2'}$ = 6.8 Hz), 5.17 (t, 1H, OH, OH-5', J = 5.5 Hz), 5.07 (d, 1H, OH-3', $J_{OH-3'}$ = 4.5 Hz), 4.65 (dd, 1H, H-2', J = 7.1 Hz, J = 12.2 Hz), 4.00 (t, 1H, H-3', $J_{3'-2'} = J_{3'-OH'}$ = 4.8 Hz), 3.41 (m, 2H, H-5' and H-5"), 1.12 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 595 $(2M+H)^+$, 390 $(M+G+H)^+$, 298 $(M+H)^+$, 152 $(B+2H)^+$, FAB<0 *m/z* 593 $(2M-H)^-$, 296 $(M-H)^-$, 150 $(B)^-$.

EXAMPLE 23: 9-(2,3-DI-O-ACETYL-5-O-BENZOYL-4-C-METHYL-β-D-RIBOFURANOSYL)ADENINE (TT)

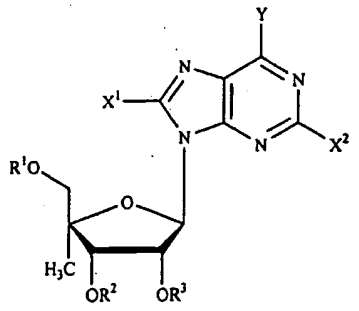
A solution of **GG** (1.10 g, 2.79 mmol) in anhydrous acetonitrile (50 ml) was treated with adenine (452.4 mg, 3.35 mmol) and stannic chloride ($SnCl_4$, 660 µL, 5.58 mmol) and stirred at room temperature overnight. The solution was concentrated under reduced pressure, diluted with chloroform (100 mL) and treated with a cold saturated aqueous solution of $NaHCO_3$ (100 ml). The mixture was filtered on celite, and the precipitate was washed with hot chloroform. The filtrates were combined, washed with water (100 ml) and brine (100 ml), dried (Na_2SO_4), and evaporated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (3-5%) in dichloromethane] to afford pure **TT** (977 mg, 77%) as a white foam. ^{1}H-NMR (DMSO-d_6): δ 8.31-7.49 (m, 7H, C_6H_5CO, H-2 and H-8), 7.37 (ls, 2H, NH_2) 6.27 (m, 2H, H-1' and H-3'), 5.90 (m, 1H, H-2'), 4.60 (d, 1H, H-5', J = 11.7 Hz), 4.35 (d, 1H, H-5''), 2.17 (s, 3H, CH_3CO_2), 2.06 (s, 3H, CH_3CO_2), 1.42 (s, 3H, CH_3).

EXAMPLE 24: PREPARATION OF 9-(4-C-METHYL-β-D-RIBOFURANOSYL) ADENINE (UU)

The title compound can be prepared according to a published procedure from **TT** (Waga, T.; Nishizaki, T.; et al. *Biosci. Biotechnol. Biochem.* **1993**, *57*, 1433-1438).

A solution of **TT** (970 mg, 2.08 mmol) in methanolic ammonia (previously saturated at -10°C) (50 mL) was stirred at room temperature overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between methylene chloride (100 ml) and water (100 ml). The aqueous layer was washed with methylene chloride (2x 100 mL), and concentrated under reduced pressure. The residue was purified by silica gel column chromatography [eluent: stepwise gradient of methanol (10-30%) in ethyl acetate] to afford pure **U** (554 mg, 95%). Crystallization from methanol/ethyl acetate gave **UU** as a white solid. Mp: 96-97 (dec.); ^{1}H-NMR (DMSO-d_6): δ 8.33 (s, 1H, H-2), 8.13 (s, 1H, H-8), 7.36 (brs, 2H, NH2), 5.84 (d, 1H, H-1', $J_{1'-2'}$ = 7.4 Hz), 5.69 (dd, 1H, OH-5', J = 4.2 Hz and J = 7.8 Hz), 5.33 (d, 1H, OH-2', J = 6.6 Hz), 5.13 (d, 1H, OH-3', J = 4.4 Hz), 4.86 (m, 1H, H-2'), 4.04 (t, 1H, H-3'), 3.58-3.32 (m, 2H, H-5' and H-5''), 1.15 (s, 3H, CH_3); MS (matrix GT): FAB>0 *m/z* 563 $(2M+H)^+$, 374 $(M+G+H)^+$, 282 $(M+H)^+$, 136 $(B+2H)^+$, FAB<0 *m/z* 561 $(2M-H)^-$, 280 $(M-H)^-$, 134 $(B)^-$.

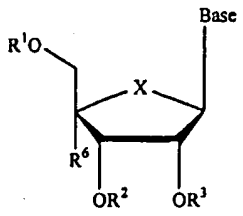
In a similar manner, the following nucleosides of Formula XVI are prepared, using the appropriate sugar and purine bases.



(XVI)

wherein R^1, R^2, R^3, X^1, X^2, and Y are defined in Table 20.

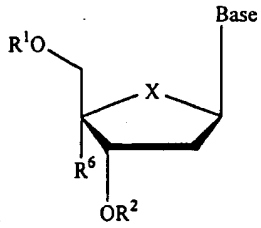
Alternatively, the following nucleosides of Formula XVIII are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XVIII)

wherein R^1, R^2, R^3, R^6, X and Base are defined in Table 21.

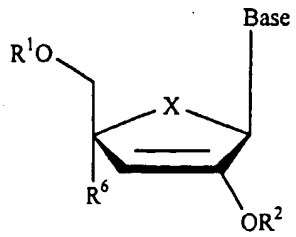
Alternatively, the following nucleosides of Formula XIX are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XIX)

wherein R^1, R^2, R^6, X and Base are defined in Table 22.

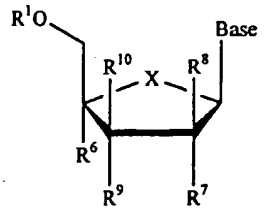
Alternatively, the following nucleosides of Formula XXIV are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XXIV)

wherein R^1, R^2, R^6, X, and Base are defined in Table 23.

Alternatively, the following nucleosides of Formula XX are prepared, using the appropriate sugar and pyrimidine or purine bases.



(XX)

wherein R^1, R^6, R^7, R^8, X, Base, R^{10} and R^9 are defined in Table 24.

Tables 1-24 set out examples of species within the present invention. When the amino acid appears in the table, it is considered to be a specific and independent disclosure of each of the esters of α, β γ or δ glycine, alanine, valine, leucine, isoleucine, methionine, phenylalanine, tryptophan, proline, serine, threonine, cysteine, tyrosine, asparagine, glutamine, aspartate, glutamate, lysine, arginine and histidine in the D and L-configurations. When the term acyl is used in the tables, it is meant to be a specific and independent disclosure of any of the acyl groups as defined herein, including but not limited to acetyl, trifluoroacetyl, methylacetyl, cyclopropylacetyl, cyclopropylcarboxy, propionyl, butyryl, hexanoyl, heptanoyl, octanoyl, neo-heptanoyl, phenylacetyl, diphenylacetyl, α-trifluoromethyl-phenylacetyl, bromoacetyl, 4-chloro-benzeneacetyl, 2-chloro-2,2-diphenylacetyl, 2-chloro-2-phenylacetyl, trimethylacetyl, chlorodifluoroacetyl, perfluoroacetyl, fluoroacetyl, bromodifluoroacetyl, 2-thiopheneacetyl, tert-butylacetyl, trichloroacetyl, monochloro-acetyl, dichloroacetyl, methoxybenzoyl, 2-bromo-propionyl, decanoyl, n-pentadecanoyl, stearyl, 3-cyclopentyl-propionyl, 1-benzene-carboxyl, pivaloyl acetyl, 1-adamantane-carboxyl, cyclohexane-carboxyl, 2,6-pyridinedicarboxyl, cyclopropane-carboxyl, cyclobutane-carboxyl, 4-methylbenzoyl, crotonyl, 1-methyl-1H-indazole-3-carbonyl, 2-propenyl, isovaleryl, 4-phenylbenzoyl.

F. Biological Assays

Compounds can exhibit anti-flavivirus or pestivirus activity by inhibiting flavivirus or pestivirus polymerase, by inhibiting other enzymes needed in the replication cycle, or by other pathways.

Phosphorylation Assay of Nucleoside to Active Triphosphate

To determine the cellular metabolism of the compounds, HepG2 cells were obtained from the American Type Culture Collection (Rockville, MD), and were grown in 225 cm^2 tissue culture flasks in minimal essential medium supplemented with non-essential amino acids, 1% penicillin-streptomycin. The medium was renewed every three days, and the cells were subcultured once a week. After detachment of the adherent monolayer with a 10 minute exposure to 30 mL of trypsin-EDTA and three consecutive washes with medium, confluent HepG2 cells were seeded at a density of 2.5×10^6 cells per well in a 6-well plate and exposed to 10 μM of [^{3}H] labeled active compound (500 dpm/pmol) for the specified time periods. The cells were maintained at 37°C under a 5% CO_2 atmosphere. At the selected time points, the cells were washed three times with ice-cold phosphate-buffered saline (PBS). Intracellular active compound and its respective metabolites were extracted by incubating the cell pellet overnight at –20°C with 60% methanol followed by extraction with an additional 20 μL of cold methanol for one hour in an ice bath. The extracts were then combined, dried under gentle filtered air flow and stored at –20°C until HPLC analysis.

Bioavailability Assay in Cynomolgus Monkeys

Within 1 week prior to the study initiation, the cynomolgus monkey was surgically implanted with a chronic venous catheter and subcutaneous venous access port (VAP) to facilitate blood collection and underwent a physical examination including hematology and serum chemistry evaluations and the body weight was recorded. Each monkey (six total) receives approximately 250 μCi of ^{3}H activity with each dose of active compound at a dose level of 10 mg/kg at a dose concentration of 5 mg/mL, either via an intravenous bolus (3 monkeys, IV), or via oral gavage (3 monkeys, PO). Each dosing syringe was weighed before dosing to gravimetrically determine the quantity of formulation administered. Urine samples were collected via pan catch at the designated intervals (approximately 18-0 hours pre-dose, 0-4, 4-8 and 8-12 hours post-dosage) and processed. Blood samples were collected as well (pre-dose, 0.25, 0.5, 1, 2, 3, 6, 8, 12 and 24 hours post-dosage) via the chronic venous

catheter and VAP or from a peripheral vessel if the chronic venous catheter procedure should not be possible. The blood and urine samples were analyzed for the maximum concentration (C_{max}), time when the maximum concentration was achieved (T_{max}), area under the curve (AUC), half life of the dosage concentration ($T_{½}$), clearance (CL), steady state volume and distribution (V_{ss}) and bioavailability (F).

Bone Marrow Toxicity Assay

Human bone marrow cells were collected from normal healthy volunteers and the mononuclear population were separated by Ficoll-Hypaque gradient centrifugation as described previously by Sommadossi J-P, Carlisle R. *Antimicrobial Agents and Chemotherapy* **1987**; 31:452-454; and Sommadossi J-P, Schinazi RF, et al. *Biochemical Pharmacology* **1992**; 44:1921-1925. The culture assays for CFU-GM and BFU-E were performed using a bilayer soft agar or methylcellulose method. Drugs were diluted in tissue culture medium and filtered. After 14 to 18 days at 37°C in a humidified atmosphere of 5% CO_2 in air, colonies of greater than 50 cells were counted using an inverted microscope. The results are presented as the percent inhibition of colony formation in the presence of drug compared to solvent control cultures.

Mitochondria Toxicity Assay

HepG2 cells were cultured in 12-well plates as described above and exposed to various concentrations of drugs as taught by Pan-Zhou X-R, Cui L, et al. *Antimicrob. Agents Chemother.* **2000**; 44:496-503. Lactic acid levels in the culture medium after 4 day drug exposure were measured using a Boehringer lactic acid assay kit. Lactic acid levels were normalized by cell number as measured by hemocytometer count.

Cytotoxicity Assay

Cells were seeded at a rate of between 5×10^3 and 5×10^4/well into 96-well plates in growth medium overnight at 37°C in a humidified CO_2 (5%) atmosphere. New growth medium containing serial dilutions of the drugs was then added. After incubation for 4 days, cultures were fixed in 50% TCA and stained with sulforhodamineB. The optical density was read at 550 nm. The cytotoxic concentration was expressed as the concentration required to reduce the cell number by 50% (CC_{50}).

Cell Protection Assay (CPA)

The assay was performed essentially as described by Baginski, S. G.; Pevear, D. C.; et al. *PNAS USA* **2000**, 97(14), 7981-7986. MDBK cells (ATCC) were seeded onto 96-well culture plates (4,000 cells per well) 24 hours before use. After infection with BVDV (strain NADL, ATCC) at a multiplicity of infection (MOI) of 0.02 plaque forming units (PFU) per cell, serial dilutions of test compounds were added to both infected and uninfected cells in a final concentration of 0.5% DMSO in growth medium. Each dilution was tested in quadruplicate. Cell densities and virus inocula were adjusted to ensure continuous cell growth throughout the experiment and to achieve more than 90% virus-induced cell destruction in the untreated controls after four days post-infection. After four days, plates were fixed with 50% TCA and stained with sulforhodamine B. The optical density of the wells was read in a microplate reader at 550 nm. The 50% effective concentration (EC_{50}) values were defined as the compound concentration that achieved 50% reduction of cytopathic effect of the virus.

Plaque Reduction Assay

For each compound the effective concentration was determined in duplicate 24-well plates by plaque reduction assays. Cell monolayers were infected with 100 PFU/well of virus. Then, serial dilutions of test compounds in MEM supplemented with 2% inactivated serum and 0.75% of methyl cellulose were added to the monolayers. Cultures were further incubated at 37°C for 3 days, then fixed with 50% ethanol and 0.8% Crystal Violet, washed and air-dried. Then plaques were counted to determine the concentration to obtain 90% virus suppression.

Yield Reduction Assay

For each compound the concentration to obtain a 6-log reduction in viral load was determined in duplicate 24-well plates by yield reduction assays. The assay was performed as described by Baginski, S. G.; Pevear, D. C.; et al. *PNAS USA* **2000**, 97(14), 7981-7986, with minor modifications. Briefly, MDBK cells were seeded onto 24-well plates (2 x 105 cells per well) 24 hours before infection with BVDV (NADL strain) at a multiplicity of infection (MOI) of 0.1 PFU per cell. Serial dilutions of test compounds were added to cells in a final concentration of 0.5% DMSO in growth medium. Each dilution was tested in triplicate. After three days, cell cultures (cell monolayers and supernatants) were lysed by

three freeze-thaw cycles, and virus yield was quantified by plaque assay. Briefly, MDBK cells were seeded onto 6-well plates (5 x 105 cells per well) 24 h before use. Cells were inoculated with 0.2 mL of test lysates for 1 hour, washed and overlaid with 0.5% agarose in growth medium. After 3 days, cell monolayers were fixed with 3.5% formaldehyde and stained with 1% crystal violet (w/v in 50% ethanol) to visualize plaques. The plaques were counted to determine the concentration to obtain a 6-log reduction in viral load.

EXAMPLE 25: ANTIVIRAL POTENCY OF TEST COMPOUNDS IN A CELL BASED ASSAY

The titer of BVDB (Log_{10} units/ml) were identified after treatment of infected MDBK cells with increasing concentrations of four test compounds. Ribavirin was used as a standard. This data is shown in Figure 11. The graph shows the antiviral potency of these compounds.

EXAMPLE 26:CELLULAR PHARMACOLOGY OF 2'-C-METHYL-CYTIDINE- 3'-O-L-VALINE ESTER (VAL-MCYD)

Phosphorylation Assay of Nucleoside to Active Triphosphate

To determine the cellular metabolism of the compounds, HepG2 cells were obtained from the American Type Culture Collection (Rockville, MD), and were grown in 225 cm^2 tissue culture flasks in minimal essential medium supplemented with non-essential amino acids, 1% penicillin-streptomycin. The medium was renewed every three days, and the cells were subcultured once a week. After detachment of the adherent monolayer with a 10 minute exposure to 30 mL of trypsin-EDTA and three consecutive washes with medium, confluent HepG2 cells were seeded at a density of 2.5 x 10^6 cells per well in a 6-well plate and exposed to 10 μM of [^{3}H] labeled active compound (500 dpm/pmol) for the specified time periods. The cells were maintained at 37°C under a 5% CO_2 atmosphere. At the selected time points, the cells were washed three times with ice-cold phosphate-buffered saline (PBS). Intracellular active compound and its respective metabolites were extracted by incubating the cell pellet overnight at –20°C with 60% methanol followed by extraction with an additional 20 μL of cold methanol for one hour in an ice bath. The extracts were then combined, dried under gentle filtered air flow and stored at –20°C until HPLC analysis.

Antiviral nucleosides and nucleoside analogs were generally converted into the active metabolite, the 5'-triphosphate (TP) derivatives by intracellular kinases. The nucleoside-TPs then exert their antiviral effect by inhibiting the viral polymerase during virus replication. In primary human hepatocyte cultures, in a human hepatoma cell line (HepG2), and in a bovine kidney cell line (MDBK), mCyd was converted into a major metabolite, 2'-C-methyl-cytidine-5'- triphosphate (mCyd-TP), along with smaller amounts of a uridine 5'-triphosphate derivative, 2'-C-methyl-uridine-5'- triphosphate (mUrd-TP). mCyd-TP is inhibitory when tested *in vitro* against the BVDV replication enzyme, the NS5B RNA dependent RNA polymerase, and is thought to be responsible for the antiviral activity of mCyd.

The cellular metabolism of mCyd was examined using MDBK cells, HepG2 cells and human primary hepatocytes exposed to 10 μM [^{3}H]-mCyd. High-pressure liquid chromatography (HPLC) analysis demonstrated that mCyd was phosphorylated in all three cell types, with mCyd-TP being the predominant metabolite after 24 h. The metabolic profile obtained over a 48-hour exposure of human hepatoma HepG2 cells to 10 μM [^{3}H]-mCyd was tested. In HepG2 cells, levels of mCyd-TP peaked at 41.5 ± 13.4 μM after 24 hours (see Table 25) and fell slowly thereafter. In primary human hepatocytes, the peak mCyd-TP concentration at 24 hours was 4 fold lower at 10.7 ± 6.7 μM. MDBK bovine kidney cells yielded intermediate levels of mCyd-TP (30.1 ± 6.9 μM at 24 hours).

Exposure of hepatocytes to mCyd led to production of a second 5'-triphosphate derivative, mUrd-TP. In HepG2 cells exposed to 10 μM [^{3}H]-mCyd, the mUrd-TP level reached 1.9 ± 1.6 μM at 24 hours, compared to 8.1 ± 3.4 μM in MDBK cells and 3.2 ± 2.0 μM in primary human hepatocytes. While MDBK and HepG2 cells produced comparable total amounts of phosphorylated species (approximately 43 versus 47 μM, respectively) at 24h, mUrd-TP comprised 19% of the total product in MDBK cells versus only 4% in HepG2 cells. mUrd-TP concentration increased steadily over time, however reached a plateau or declined after 24 hours.

Table 25: Activation of mCyd (10 μM) in Hepatocytes and MDBK Cells

		Metabolite (μM)					
Cells[a]	n	mCyd-MP	mUrd-MP	mCyd-DP	mUrd-DP	mCyd-TP	mUrd-TP
HepG2	6	ND	ND	3.7 ± 2.1	ND	41.5 ± 13.4	1.9 ± 1.6
Human Primary Hepatocytes	5	ND	ND	1.15 ± 1.1	0.26 ± 0.4 C	10.7 ± 6.7	3.2 ± 2.0
MDBK Bovine Kidney Cells	7	ND	ND	4.2 ± 2.7	0.76 ± 0.95	30.1 ± 6.9	8.1 ± 3.4

a. Cells were incubated for 24 hours with [^{3}H]-mCyd, specific activity: HepG2 assay = 0.5 Ci/mmol; human and monkey hepatocyte assay = 1.0 Ci/mmol.

b. The concentrations of metabolites were determined as pmoles per million cells. One pmole per million cells is roughly equivalent to 1 μM.

ND, not detected.

The apparent intracellular half-life of the mCyd-TP was 13.9 ± 2.2 hours in HepG2 cells and 7.6 ± 0.6 hours in MDBK cells: the data were not suitable for calculating the half life of mUrd-TP. Other than the specific differences noted above, the phosphorylation pattern detected in primary human hepatocytes was qualitatively similar to that obtained using HepG2 or MDBK cells.

EXAMPLE 27: CELL CYTOTOXICITY

Mitochondria Toxicity Assay

HepG2 cells were cultured in 12-well plates as described above and exposed to various concentrations of drugs as taught by Pan-Zhou X-R, Cui L, et al.. *Antimicrob. Agents Chemother.* 2000; 44:496-503. Lactic acid levels in the culture medium after 4 day drug exposure were measured using a Boehringer lactic acid assay kit. Lactic acid levels were normalized by cell number as measured by hemocytometer count.

Cytotoxicity Assays

Cells were seeded at a rate of between 5 x 10^3 and 5 x 10^4/well into 96-well plates in growth medium overnight at 37°C in a humidified CO_2 (5%) atmosphere. New growth medium containing serial dilutions of the drugs was then added. After incubation for 4 days,

cultures were fixed in 50% TCA and stained with sulforhodamineB. The optical density was read at 550 nm. The cytotoxic concentration was expressed as the concentration required to reduce the cell number by 50% (CC_{50}).

Conventional cell proliferation assays were used to assess the cytotoxicity of mCyd and its cellular metabolites in rapidly dividing cells. The inhibitory effect of mCyd was determined to be cytostatic in nature since mCyd showed no toxicity in confluent cells at concentrations far in excess of the corresponding CC_{50} for a specific cell line. mCyd was not cytotoxic to rapidly growing Huh7 human hepatoma cells or H9c2 rat myocardial cells at the highest concentration tested (CC_{50} >250 μM). The mCyd CC_{50} values were 132 and 161 μM in BHK-21 hamster kidney and HepG2 human hepatoma cell lines, respectively. The CC_{50} for mCyd in HepG2 cells increased to 200 μM when the cells were grown on collagen-coated plates for 4 or 10 days. For comparison, CC_{50} values of 35-36 μM were derived when ribavirin was tested in HepG2 and Huh7 cells. In the MDBK bovine kidney cells used for BVDV antiviral studies, the CC_{50} of mCyd was 36 μM. A similar CC_{50} value (34 μM) was determined for mCyd against MT-4 human T-lymphocyte cells. In addition, mCyd was mostly either non-cytotoxic or weakly cytotoxic (CC_{50} >50 to >200 μM) to numerous other cell lines of human and other mammalian origin, including several human carcinoma cell lines, in testing conducted by the National Institutes of Health (NIH) Antiviral Research and Antimicrobial Chemistry Program. Exceptions to this were rapidly proliferating HFF human foreskin fibroblasts and MEF mouse embryo fibroblasts, where mCyd showed greater cytotoxicity (CC_{50}s 16.9 and 2.4 μM, respectively). Again, mCyd was much less toxic to stationary phase fibroblasts.

The cytotoxic effect of increasing amounts of mCyd on cellular DNA or RNA synthesis was examined in HepG2 cells exposed to [^{3}H]-thymidine or [^{3}H]-uridine. In HepG2 cells, the CC_{50}s of mCyd required to cause 50% reductions in the incorporation of radiolabeled thymidine and uridine into cellular DNA and RNA, were 112 and 186 μM, respectively. The CC_{50} values determined for ribavirin (RBV) for DNA and RNA synthesis, respectively, were 3.16 and 6.85 μM. These values generally reflect the CC_{50}s of 161 and 36 μM determined for mCyd and RBV, respectively, in conventional cell proliferation cytotoxicity assays. To assess the incorporation of mCyd into cellular RNA and DNA, HepG2 cells were exposed to 10 μM [^{3}H]-mCyd or control nucleosides (specific activity 5.6 – 8.0 Ci/mmole, labeled in the base) for 30 hours. Labeled cellular RNA or DNA species were separately isolated and incorporation was determined by scintillation counting.

Exposure of HepG2 cells to mCyd resulted in very low levels of incorporation of the ribonucleoside analog into either cellular DNA or RNA (0.0013 - 0.0014 pmole/μg of nucleic acid). These levels were similar to the 0.0009 and 0.0013 pmole/μg values determined for the incorporation of ZDV and ddC, respectively, into RNA: since these deoxynucleosides were not expected to incorporate into RNA, these levels likely reflect the assay background. The incorporation of ZDV and ddC into DNA was significantly higher (0.103 and 0.0055 pmole/μg, respectively). Ribavirin (RBV) incorporated into both DNA and RNA at levels 10-fold higher than mCyd.

Table 26a: Cellular Nucleic Acid Synthesis and Incorporation Studies in HepG2 Cells (10 μM Drug and Nucleoside Controls)

	CC_{50} (μM)		Incorporated drug amount	
Compound	**DNA ([^{3}H]Thymidine)**	**RNA ([^{3}H]Uridine)**	**pmole/μg DNA**	**pmole/μg RNA**
mCyd	112.3 ± 34.5	186.1 ± 28.2	0.0013 ± 0.0008[a]	0.0014 ± 0.0008[a]
ZDV	nd	nd	0.103 ± 0.0123[a]	0.0009 ± 0.0003[a]
ddC	nd	nd	0.0055[b]	0.0013[b]
Ribavirin	3.16 ± 0.13	6.85 ± 1.83	0.0120[b]	0.0132[c]

a. Data represent mean of three experiments
b. Data represent one experiment
c. Data represent mean of two experiments
nd, not determined

Table 26b: Cytotoxicity of mCyd in Mammalian Cell Lines

Cell Line[a]	**n**	CC_{50} (μM)
Huh 7	7	> 250
Hep G2	6	161 ± 19
Hep G2[b]	2	> 200
MDBK	7	36 ± 7
BHK-21	2	132 ± 6
H9c2	2	> 250

a. All cytotoxicity testing was done under conditions of rapid cell division
b. Cells were grown on collagen coated plates for 4 or 10 d

Bone Marrow Toxicity Assay

Human bone marrow cells were collected from normal healthy volunteers and the mononuclear population were separated by Ficoll-Hypaque gradient centrifugation as described previously by Sommadossi J-P, Carlisle R. *Antimicrobial Agents and Chemotherapy* **1987**; 31:452-454; and Sommadossi J-P, Schinazi RF, et al. *Biochemical Pharmacology* **1992**; 44:1921-1925. The culture assays for CFU-GM and BFU-E were performed using a bilayer soft agar or methylcellulose method. Drugs were diluted in tissue culture medium and filtered. After 14 to 18 days at 37°C in a humidified atmosphere of 5% CO_2 in air, colonies of greater than 50 cells were counted using an inverted microscope. The results are presented as the percent inhibition of colony formation in the presence of drug compared to solvent control cultures.

Cell Protection Assay (CPA)

The assay was performed essentially as described by Baginski, S. G.; Pevear, D. C.; et al. *PNAS USA* **2000**, 97(14), 7981-7986. MDBK cells (ATCC) were seeded onto 96-well culture plates (4,000 cells per well) 24 hours before use. After infection with BVDV (strain NADL, ATCC) at a multiplicity of infection (MOI) of 0.02 plaque forming units (PFU) per cell, serial dilutions of test compounds were added to both infected and uninfected cells in a final concentration of 0.5% DMSO in growth medium. Each dilution was tested in quadruplicate. Cell densities and virus inocula were adjusted to ensure continuous cell growth throughout the experiment and to achieve more than 90% virus-induced cell destruction in the untreated controls after four days post-infection. After four days, plates were fixed with 50% TCA and stained with sulforhodamine B. The optical density of the wells was read in a microplate reader at 550 nm. The 50% effective concentration (EC_{50}) values were defined as the compound concentration that achieved 50% reduction of cytopathic effect of the virus.

The myelosuppressive effects of certain nucleoside analogs have highlighted the need to test for potential effects of investigational drugs on the growth of human bone marrow progenitor cells in clonogenic assays. In particular, anemia and neutropenia are the most common drug-related clinical toxicities associated with the anti-HIV drug zidovudine (ZDV) or the ribavirin (RBV) component of the standard of care combination therapy used for HCV treatment. These toxicities have been modeled in an *in vitro* assay that employed bone

marrow cells obtained from healthy volunteers (Sommadossi J-P, Carlisle R. *Antimicrob. Agents Chemother.* 1987;31(3): 452-454). ZDV has been previously shown to directly inhibit human granulocyte-macrophage colony-forming (CFU-GM) and erythroid burst-forming M in this model (BFU-E) activity at clinically relevant concentrations of 1-2 (Berman E, et al. *Blood* 1989;74(4):1281-1286; Yoshida Y, Yoshida C. *AIDS Res. Hum. Retroviruses* 1990;6(7):929-932.; Lerza R, et al. *Exp. Hematol.* 1997;25(3):252-255; Dornsife RE, Averett DR. *Antimicrob. Agents Chemother.* 1996;40(2):514-519; Kurtzberg J, Carter SG. *Exp. Hematol.* 1990;18(10):1094-1096 ; Weinberg RS, et al. *Mt. Sinai J. Med.* 1998;65(1):5-13). Using human bone marrow clonogenic assays, the CC_{50} values of mCyd in CFU-GM and BFU-E were 14.1 ± 4.5 and 13.9 ± 3.2 μM (see Table 27). mCyd was significantly less toxic to bone marrow cells than both ZDV and RBV (Table 27).

Table 27: Bone Marrow Toxicity of mCyd in Granulocyte Macrophage Progenitor and Erythrocyte Precursor Cells

Compound	CFU-GM[a] CC_{50} (μM)	BFU-E[a] CC_{50} (μM)
mCyd	14.1 ± 4.5 μM	13.9 ± 3.2
ZDV	0.89 ± 0.47	0.35 ± 0.28
RBV	7.49 ± 2.20	0.99 ± 0.24

a. Data from 3 independent experiments for RBV and 5-8 independent experiments for mCyd and ZDV. All experiments were done in triplicate.

Effect on Mitochondrial Function

Antiviral nucleoside analogs approved for HIV therapy such as ZDV, stavudine (d4T), didanosine (ddI), and zalcitabine (ddC) have been occasionally associated with clinically limiting delayed toxicities such as peripheral neuropathy, myopathy, and pancreatitis (Browne MJ, et al. *J. Infect. Dis.* 1993;167(1):21-29; Fischl MA, et al. *Ann. Intern. Med.* 1993;18(10):762-769.; Richman DD, et al. *N. Engl. J. Med.* 1987;317(4): 192-197; Yarchoan R, et al. *Lancet* 1990;336(8714):526-529). These clinical adverse events have been attributed by some experts to inhibition of mitochondrial function due to reduction in mitochondrial DNA (mtDNA) content and nucleoside analog incorporation into mtDNA. In addition, one particular nucleoside analog, fialuridine (1,-2'-deoxy-2'-fluoro-1-β-D-arabinofuranosyl-5-iodo-uracil; FIAU), caused hepatic failure, pancreatitis, neuropathy, myopathy and lactic acidosis due to direct mitochondrial toxicity (McKenzie R, et al. *N.*

Engl. J. Med. 1995;333(17):1099-1105). Drug-associated increases in lactic acid production can be considered a marker of impaired mitochondrial function or oxidative phosphorylation. (Colacino, J. M. *Antiviral Res.* 1996 29(2-3): 125-39).

To assess the potential of mCyd to produce mitochondrial toxicity, several *in vitro* studies were conducted using the human hepatoma cell lines HepG2 or Huh7. These studies included analysis of lactic acid production, mtDNA content, and determination of changes in morphology (e.g., loss of cristae, matrix dissolution and swelling, and lipid droplet formation) of mitochondrial ultrastructure.

The effects of mCyd on mitochondria are presented in Table 28. No differences were observed in lactic acid production in mCyd-treated cells versus untreated cells at up to 50 μM mCyd in Huh7 cells or10 μM mCyd in HepG2 cells. A modest (38%) increase in lactic acid production was seen in HepG2 cells treated with 50 μM mCyd. The significance of this finding is unclear, particularly since mCyd is unlikely to attain a plasma concentration of 50 μM in the clinic. For comparison, lactic acid production increases by 100% over control cells in cells treated with 10 μM FIAU (Cui L, Yoon, et al. *J. Clin. Invest.* 1995;95:555-563). Exposure of HepG2 cells to mCyd for 6 or 14 days at concentrations up to 50 μM had no negative effect on mitochondrial DNA content compared to a 56 or 80% reduction in ddC-treated cells, respectively.

Following M mCyd, the ultrastructure of HepG2 cells, and in□14 days of exposure to 10 particular mitochondria, was examined by transmission electron microscopy. No changes in cell architecture, or in mitochondrial number or morphology (including cristae), were observed in the majority of cells. In 17% of the cells, 1 to 2 mitochondria out of an average of 25 per cell appeared enlarged. Such minor changes would be unlikely to have any significant impact on mitochondrial function. ddC-treated cells showed abnormal mitochondrial morphology with loss of cristae, and the accumulation of fat droplets. (Medina, D. J., C. H. Tsai, et al. *Antimicrob. Agents Chemother.* 1994 38(8): 1824-8; Lewis W, et al. *J. Clin. Invest.* 1992;89(4):1354-1360., Lewis, L. D., F. M. Hamzeh, et al. *Antimicrob. Agents Chemother.* 1992 36(9): 2061-5).

Table 28: Effect of mCyd on Hepatocyte Proliferation, Mitochondrial Function, and Morphology in HepG2 Cells

		L-Lactate (% of Control[a])		mtDNA/nuclear DNA (% of Control[b])		Electron Microscopy[c]	
Agent	Conc (μM)	HepG2 Cells	Huh7 Cells	6 day Treatment	14 day Treatment	Lipid Droplet Form.	Mito.Morphol.
Cont.	0	100	100	100	100	Negative	Normal
mCyd	10	98.6 ± 7.3	98.0 ± 12.3	117.3 ± 17.5	99.7 ± 23.9	Negative	Normal[d]
	50	138.0 ± 8.9	97.1 ± 10.1	158.2 ± 17.5	83.0 ± 15.5	nd	nd
ddC	1	nd	nd	44.3 ± 9.3	19.6 ± 8.2	nd	nd
	10	nd	nd	nd	nd	Positive	Loss of Cristae

Effect on Human DNA Polymerases α, β, and γ

The cellular DNA polymerases are responsible for normal nuclear and mitochondrial DNA synthesis and repair. Nucleoside analog triphosphates are potential inhibitors of DNA polymerases and hence could disrupt critical cell functions. In particular, the inhibition of human polymerase γ, the enzyme responsible for mitochondrial DNA synthesis, has been linked to defects in mitochondrial function (Lewis, W., E. S. Levine, et al. *Proceedings of the National Academy of Sciences, USA* 1996 93(8): 3592-7.). Experiments were undertaken to determine if mCyd-TP inhibited human DNA polymerases. As shown in Table 29 mCyd-TP was not a substrate for human DNA polymerases α, β, or γ. Even 1 mM mCyd-TP failed to inhibit these enzymes by 50% in the majority of replicate assays and IC_{50} values could only be determined to be in excess of 880-1000 μM. In contrast, ddC was a potent inhibitor of all three human DNA polymerases and of polymerases β and γ in particular (IC_{50}s of 4.8 and 2.7 μM, respectively). Potent inhibition was also seen for the control drug, actinomycin D, a known inhibitor of DNA-dependent-DNA polymerases.

Table 29: Inhibition of Human Polymerases by mCyd-Triphosphate

	IC_{50} (μM)		
	mCyd-TP[a]	ddC-TP[b]	Act. D[a]
Pol α	>1000	78 ± 23.4	5.8 ± 3.1
Pol β	≥883.3 ± 165	4.8 ± 1	7.9 ± 3
Pol γ	≥929.3 ± 100	2.7 ± 1	15.5 ± 4

a. Mean ± S.D. from 4 data sets

b. Mean ± S.D. from 2 data sets

a. HepG2 or huh7 cells were treated with compounds for 4 days, data represent at least three independent experiments
b. HepG2 cells were treated with compounds for 6 and 14 days, data represents at least three independent experiments
c. HepG2 cells were treated with compounds for 14 days
d. 17% cells (11 of 64) contained 1 or 2 enlarged mitochondria out of 25 in two independent experiments
nd, not determined

EXAMPLE 28: *IN VITRO* ANTIVIRAL ACTIVITY AGAINST BVDV

Compounds can exhibit anti-flavivirus or pestivirus activity by inhibiting flavivirus or pestivirus polymerase, by inhibiting other enzymes needed in the replication cycle, or by other pathways.

Plaque Reduction Assay

For each compound the effective concentration was determined in duplicate 24-well plates by plaque reduction assays. Cell monolayers were infected with 100 PFU/well of virus. Then, serial dilutions of test compounds in MEM supplemented with 2% inactivated serum and 0.75% of methyl cellulose were added to the monolayers. Cultures were further incubated at 37°C for 3 days, then fixed with 50% ethanol and 0.8% Crystal Violet, washed and air-dried. Then plaques were counted to determine the concentration to obtain 90% virus suppression.

Yield Reduction Assay

For each compound the concentration to obtain a 6-log reduction in viral load was determined in duplicate 24-well plates by yield reduction assays. The assay was performed

as described by Baginski, S. G.; Pevear, D. C.; Seipel, M.; et al. *PNAS USA* 2000, 97(14), 7981-7986, with minor modifications. Briefly, MDBK cells were seeded onto 24-well plates (2 x 105 cells per well) 24 hours before infection with BVDV (NADL strain) at a multiplicity of infection (MOI) of 0.1 PFU per cell. Serial dilutions of test compounds were added to cells in a final concentration of 0.5% DMSO in growth medium. Each dilution was tested in triplicate. After three days, cell cultures (cell monolayers and supernatants) were lysed by three freeze-thaw cycles, and virus yield was quantified by plaque assay. Briefly, MDBK cells were seeded onto 6-well plates (5 x 105 cells per well) 24 h before use. Cells were inoculated with 0.2 mL of test lysates for 1 hour, washed and overlaid with 0.5% agarose in growth medium. After 3 days, cell monolayers were fixed with 3.5% formaldehyde and stained with 1% crystal violet (w/v in 50% ethanol) to visualize plaques. The plaques were counted to determine the concentration to obtain a 6-log reduction in viral load.

Studies on the antiviral activity of mCyd in cultured cells were conducted. The primary assay used to determine mCyd antiviral potency was a BVDV-based cell-protection assay (CPA). This assay measures the ability of mCyd to protect growing MDBK bovine kidney cells from destruction by a cytopathic NADL strain of BVDV. The cytotoxicity of the test drug on uninfected cells was measured in parallel. The antiviral activities of mCyd and ribavirin in the CPA are compared in Table 30a. mCyd effectively protected *de novo*-infected MDBK cells in a concentration-dependent manner with an $EC_{50} = 0.67 \pm 0.22$ μM (Table 30a). mCyd afforded complete cytoprotection at concentrations well below the CC_{50} for mCyd in this assay (38 ± 9 μM). In the CPA, as well as in other assays described below, ribavirin showed no clear antiviral effect: significant (50% or more) cell protection was not achieved in most assays as the cytotoxicity of ribavirin overlaps and masks the protective effect. Thus, ribavirin gave a CC_{50} of 4.3 ± 0.6 μM and an $EC_{50} > 4.3$ μM in the CPA.

For Tables 30a-30o below, cell lines utilized include MT-4 for HIV; Vero 76, African green monkey kidney cells for SARS; BHK for Bovine Viral Diarrhea Virus; Sb-1 for poliovirus Sabin type-1; CVB-2, CVB-3, CVB-4, and CVA-9 for Coxsackieviruses B-2, B-3, B-4 and A-9; and REO-1 for double-stranded RNA viruses. Note: BVDV = bovine viral diarrhea virus; YFV = yellow fever virus; DENV = dengue virus; WNV = West Nile virus; CVB-2 = Coxsackie B-2 virus; Sb-1 = Sabin type 1 poliomyelitis virus; and REO = double-stranded RNA Reovirus.

Table 30a: *In Vitro* Activity of mCyd Against BVDV in the Cell Protection Assay

Compound	n	EC_{50}, μM	CC_{50}, μM
mCyd	11	0.67 ± 0.22	38 ± 9
RBV	3	>4.3	4.3 ± 0.6

Table 30b: CC_{50} Test Results for β-D-2'-C-methyl-cytidine (Compound G), 3'-*O*-valinyl ester of β-D-2'-C-methyl-cytidine dihydrochloride salt (Compound M), and β-D-2'-C-methyl-uracil (Compound N)

	CC_{50}							
Compound		BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
G	34	2.3	54	95	80	12	11.5	13
M	24	5.8	82	>100	82	12	14	22
N	>100	18	100	> or = 100	80	>100	55	>100

Table 30c. CC_{50} and EC_{50} Test Results for β-D-2'-C-methyl-cytidine (Compound G)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
G	34	>100	>100	6	11	9	13	26	13

Table 30d. CC_{50} and EC_{50} Test Results for β-D-2'-C-methyl-adenosine (Compound A) and β-D-2'-C-methyl-2-amino adenosine (Compound B)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
A	4	80	70	10	10	14	13	12	>70

B	>100	>100	50	90	75	23	32	39	2

Table 30e. CC_{50} and EC_{50} Test Results for β-D-2'-C-methyl-guanosine (Compound C) and β-D-2'-C-methyl-6-chloro-guanosine (Compound D)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
C	>100	>100	100	22	30	22	12	46	2
D	>100	>100	30	50	25	21	25	37	0.4

Table 30f. CC_{50} and EC_{50} Test Results for 3',5'-di-*O*-valinyl ester of β-D-2'-C-methyl-guanosine dihydrochloride salt (Compound E)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
E	>100	>100	100	30	33	30	35	40	2

Table 30g. CC_{50} and EC_{50} Test Results for β-D-2'-C-methyl-cytidine (Compound G)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
G	34	>100	>100	6	11	9	13	26	13

Table 30h. CC_{50} and EC_{50} Test Results for β-D-2'-C-ethynyl-adenosine (Compound H)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1

		76							
H	4.6	60	15	1	1.5	1	2	2.5	6

Table 30i. CC_{50} and EC_{50} Test Results for β-D-2'-C-ethynyl-cytidine (Compound I)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
I	> or = 100	>100	>100	26	33	33	24	59	>100

Table 30j. CC_{50} and EC_{50} Test Results for β-D-2-amino-adenosine (Compound J)

	CC_{50}	CC_{50}	CC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}	EC_{50}
Compound	MT-4	Vero 76	BHK	Sb-1	CVB-2	CVB-3	CVB-4	CVA-9	REO-1
J	50	>100	>100	40	53	55	50	53	>100

Table 30k. CC_{50} Test Results for β-D-2'-C-methyl-adenosine (Compound A), β-D-2'-C-methyl-2-amino adenosine (Compound B), and β-D-2'-C-methyl-2-amino-6-cyclopropyl adenosine(Compound K)

	CC_{50}							
Compound		BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
A	4.0	1.2	2.7	2.7	3.6	7	7	>70
B	>100	2.1	0.8	0.7	0.3	76	90	2
K	>100	18	10	4.9	3.5	>100	>100	9.5

Table 30l. CC_{50} Test Results for β-D-2'-C-methyl-guanosine (Compound C), β-D-2'-C-methyl-1-(methyl-2-oxo-2-phenyl ethyl)guanosine (Compound L), and β-D-2'-C-methyl-6-chloro guanosine (Compound D)

	CC_{50}							
Compound		BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
C	>100	3.5	1.2	1.4	0.6	29	50	2
L	>100	12	6	4.4	3	>100	>100	12
D	>100	0.7	1.0	0.7	0.3	25	50	0.4

Table 30m. CC_{50} Test Results for 3',5'-di-*O*-valinyl ester of β-D-2'-C-methyl-guanosine dihydrochloride salt (Compound E)

	CC_{50}							
Compound		BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
E	>100	4.9	1.0	1.4	1	33	55	2.1

Table 30n. CC_{50} Test Results for β-D-2'-C-ethynyl-adenosine (Compound H)

	CC_{50}							
Compound		BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
H	4.6	0.4	2.0	1.1	1	1.2	0.7	6

Table 30o. CC_{50} Test Results for β-D-2'-C-methyl-cytidine (Compound G), 3'-*O*-valinyl ester of β-D-2'-C-methyl-cytidine dihydrochloride salt (Compound M), and β-D-2'-C-methyl-uracil (Compound N)

	CC_{50}							
Compound		BVDV	YFV	DENV 2	WNV	CVB-2	Sb-1	REO
G	34	2.3	54	95	80	12	11.5	13
M	24	5.8	82	>100	82	12	14	22
N	>100	18	100	> or = 100	80	>100	55	>100

The overall antiviral potency of mCyd was determined against different strains of BVDV and both cytopathic (cp) and noncytopathic (ncp) biotypes in cell protection assays as well as in plaque reduction and yield reduction assays. The latter assays measure the output of infectious virus from cells and hence provide a stringent test of antiviral efficacy. The different data sets from all three assays show agreement as summarized in Table 31. The range of 50% and 90% effective inhibitory concentration (EC_{50} and EC_{90}) values for mCyd was 0.3 to 2.8 μM and 0.87 to 4.8 μM, respectively.

In the BVDV yield reduction assay, subcytotoxic concentrations (circa 20 μM) of mCyd suppressed *de novo* BVDV production by up to 6 logs, to the point where no infectious virus was detected. A 4 log_{10} effective reduction in BVDV production (EC_{4log10} or $EC_{99.99}$) was attained between 6.0 and 13.9 μM mCyd. In contrast, interferon alpha 2b (IFN α2b), although active against BVDV in this assay (EC_{50} 2.6 IU per ml), never gave more than 2 logs of viral reduction, even at 1000 IU per ml. Thus, the antiviral effect of mCyd against BVDV was much greater than that of IFNα2b or RBV.

EXAMPLE 29:: *IN VITRO* ANTIVIRAL ACTIVITY AGAINST OTHER POSITIVE-STRAND RNA VIRUSES

mCyd has been tested for efficacy against positive-strand RNA viruses other than BVDV. Data obtained are summarized in Table 31 and 32. Against flaviruses, mCyd showed modest activity. The composite EC_{50} ranges (in μM) determined from both sites were: West Nile virus (46-97); Yellow Fever virus (9-80); and Dengue Virus (59-95). For

mCyd against the alpha virus, Venezuelan Equine Encephalitis virus, EC_{50} values were 1.3 – 45 μM. mCyd was broadly active against Picornoviruses, such as Polio virus (EC_{50} = 6 μM), Coxsackie virus (EC_{50} = 15 μM), Rhinovirus types 5 and 14 (EC_{50}s = <0.1 and 0.6 μg/ml) and Rhinovirus type 2 (EC_{50} 2 - 10 μM). mCyd was generally inactive against all RNA and DNA viruses tested except for the positive-strand RNA viruses. mCyd was also found to have no activity against HIV in MT-4 human T lymphocyte cells or HBV in HepG2.2.15 cells.

Table 31: *In Vitro* Antiviral Activity of mCyd Against Plus-Strand RNA Viruses

Method of Assay	Virus Type	Cell Type	n	Antiviral Efficacy (μM)		
				EC_{50}	EC_{90}	$EC_{4\ log}$
Cell Protection Assay	BVDV NADL cp	MDBK	11	0.67 ± 0.22		
Yield Reduction Assay	BVDV NADL cp	MDBK	3	2.77 ± 1.16	4.8 ± 1.55	13.9 ± 3.07
	BVDV New York-1 ncp	MDBK	6	0.30 ± 0.07	0.87 ± 0.18	6.03 ± 1.41
	BVDV I-NADL cp	MDBK	1	0.68	1.73	8.22
	BVDV I-N-dIns ncp	MDBK	1	0.59	1.49	7.14
Plaque Reduction Assay	BVDV NADL cp	MDBK	3	2.57 ± 0.35	4.63 ± 0.72	
Cell Protection Assay	West Nile Virus	BHK	3	63-97		
Cell Protection Assay	Yellow Fever Virus 17D	BHK	1	60-80		
	DENV-2	BHK	2	95		
Cell Protection Assay	DENV-4	BHK	1	59		
	Polio Virus					
Plaque Reduction	Sb-1	VERO	1	6		

Assay						
Plaque Reduction Assay	Coxsackie Virus B2	VERO	1	15		

cp, cytopathic virus; ncp noncytopathic virus

1-NADL cp and 1-N-dIns ncp represent recombinant BVDV viruses

Table 32: *In Vitro* Antiviral Activity, Selectivity, and Cytotoxicity of mCyd

Virus (Cell line)[a]	EC_{50}[b] (μM)	CC_{50}[c] (μM)
WNV (Vero)	46	114-124
YFV (Vero)	9-30	150->200
VEE (Vero)	1.3-45	>200
HSV-1 (HFF)[d]	>100	>100
HSV-2 (HFF)[d]	>100	>100
VZV (HFF)[d]	>20	67.8
EBV (Daudi)[d]	25.5	>50
HCMV (HFF)[d]	9.9-15.6	67-73
MCMV (MEF)	>0.8	2.4
Influenza A/H1N1 (MDCK)	>200	>200
Influenza A/H3N2 (MDCK)	>20	45-65
Influenza B (MDCK)	>200	55-140
Adenovirus type 1 (A549)	>200	>200
Parainfluenza type 3 (MA-104)	>200	>200
Rhinovirus type 2 (KB)	2-10	>200
Rhinovirus type 5 (KB)[d]	0.6	20-30
Rhinovirus type 14 (HeLa-Ohio)[d]	<0.1	20->100
RSV type A (MA-104)	>200	200
Punta Toro A (LLC-MK2)	>200	>200

a. HFF, human foreskin fibroblast; Daudi, Burkitt's B-cell lymphoma; MDCK, canine kidney cells; CV-1, African green monkey kidney cells; KB, human nasopharyngeal carcinoma; MA-104, Rhesus monkey kidney cells; LLC-MK2, Rhesus monkey kidney cells; A549, Human lung carcinoma cells; MEF, mouse embryo fibroblast; Vero, African green monkey kidney cells; HeLa, human cervical adenocarcinoma cells.

b. EC_{50} = 50% effective concentration.

c. CC_{50} = 50% cytotoxic concentration.

d. Result presented in μg/mL rather than μM.

EXAMPLE 30: MULTIPLICITY OF INFECTION (MOI) AND ANTIVIRAL EFFICACY

The cell protection assay format was used to test the effect of increasing the amount of BVDV virus on the EC_{50} of mCyd. Increasing the MOI of BVDV in this assay from 0.04 to 0.16, caused the EC_{50} of mCyd to increase linearly from 0.5 μM to approximately 2.2 μM.

EXAMPLE 31: VIRAL REBOUND IN MCYD TREATED CELLS

The effect of discontinuing treatment with mCyd was tested in MDBK cells persistently infected with a noncytopathic strain (strain I-N-dIns) of BVDV. Upon passaging in cell culture, these cells continuously produce anywhere from 10^6 to $>10^7$ infectious virus particles per ml of media. This virus can be measured by adding culture supernatants from treated MDBK (BVDV) cells to uninfected MDBK cells and counting the number of resultant viral foci after disclosure by immunostaining with a BVDV-specific antibody. Treatment of a persistently infected cell line with 4 μM mCyd for one cell passage (3 days) reduced the BVDV titer by approximately 3 $\log_{10}$ from pretreatment and control cell levels of just under 10^7 infectious units per ml. At this point, mCyd treatment was discontinued. Within a single passage, BVDV titers rebounded to untreated control levels of just over 10^7 infectious units per ml.

EXAMPLE 32: MECHANISM OF ACTION

In standard BVDV CPA assays, mCyd treatment results in a marked increase in total cellular RNA content as cells grow, protected from the cytopathic effects of BVDV. This was coupled with a marked decrease in the production of BVDV RNA due to mCyd. Conversely, in the absence of mCyd, total cellular RNA actually decreases as BVDV RNA rises due to the destruction of the cells by the cytopathic virus. To further test the effect of mCyd on viral and cellular RNAs, the accumulation of intracellular BVDV RNA was monitored in MDBK cells 18-hours post infection (after approximately one cycle of virus replication) using Real Time RT-PCR. In parallel, a cellular housekeeping ribosomal protein mRNA (rig S15 mRNA) was also quantitated by RT-PCR using specific primers. The results showed that mCyd dramatically reduced BVDV RNA levels in *de novo*-infected MDBK cells with an EC_{50} of 1.7 μM and an EC_{90} of 2.3 μM. The maximum viral RNA reduction was 4 $\log_{10}$ at the highest inhibitor concentration tested (125 μM). No effect on the level of the rig S15 cellular mRNA control was observed. Together, the preceding findings suggest that

mCyd inhibits BVDV by specifically interfering with viral genome RNA synthesis without impacting cellular RNA content. This idea is further supported by the observation (Table 26a) that inhibition of RNA synthesis as measured by [^{3}H]-uridine uptake in HepG2 cells requires high concentrations of mCyd (EC_{50} = 186 μM).

In *in vitro* studies using purified BVDV NS5B RNA-dependent RNA polymerase (Kao, C. C., A. M. Del Vecchio, et al. 1999. *Virology* 253(1): 1-7) and synthetic RNA templates, mCyd-TP inhibited RNA synthesis with an IC_{50} of 0.74 μM and was a competitive inhibitor of BVDV NS5B RNA-dependent RNA polymerase with respect to the natural CTP substratE. The inhibition constant (K_i) for mCyd-TP was 0.16 μM and the Michaelis-Menten constant (K_m) for CTP was 0.03 μM. Inhibition of RNA synthesis by mCyd-TP required the presence of a cognate G residue in the RNA template. The effect of mCyd-TP on RNA synthesis in the absence of CTP was investigated in more detail using a series of short (21mer) synthetic RNA templates containing a single G residue, which was moved progressively along the template. Analysis of the newly synthesized transcripts generated from these templates in the presence of mCyd-TP revealed that RNA elongation continued only as far as the G residue, then stopped (Figure 12). In templates containing more than one G residue, RNA synthesis stopped at the first G residue encountered by the polymerase. These data strongly suggest that m-Cyd-TP is acting as a non-obligate chain terminator. The mechanism of this apparent chain termination is under further investigation.

EXAMPLE 33: Eradication Of A Persistent Bvdv Infection

The ability of mCyd to eradicate a viral infection was tested in MDBK cells persistently infected with a noncytopathic strain of BVDV (strain I-N-dIns). (Vassilev, V. B. and R. O. Donis *Virus Res.* 2000 69(2): 95-107.) Compared to untreated cells, treatment of persistently infected cells with 16 μM mCyd reduced virus production from more than 6 logs of virus per ml to undetectable levels within two cell passages (3 to 4 days per passage). No further virus production was seen upon continued treatment with mCyd through passage 12. At passages 8, 9 and 10 (arrows, Figure 13), a portion of cells was cultured for two further passages in the absence of drug to give enough time for mCyd-TP to decay and virus replication to resume. The culture media from the cells were repeatedly tested for the re-emergence of virus by adding culture supernatants from treated MDBK (BVDV) cells to uninfected MDBK cells and counting the resultant viral foci after disclosure by immunostaining with a BVDV-specific antibody. Although this assay can detect a single

virus particle, no virus emerged from the cells post drug treatment. Thus, treatment with mCyd for 8 or more passages was sufficient to eliminate virus from the persistently infected cells.

EXAMPLE 34: COMBINATION STUDIES WITH INTERFERON ALPHA 2B

The first study, performed in MDBK cells persistently infected with the New York-1 (NY-1) strain of BVDV, compared the effect of monotherapy with either mCyd (8 μM) or interferon alpha 2b (200 IU/ml), or the two drugs in combination (Figure 14A). In this experiment, 8 μM mCyd alone reduced viral titers by approximately 3.5 $\log_{10}$ after one passage to a level that was maintained for two more passages. Interferon alpha 2b alone was essentially inactive against persistent BVDV infection (approximately 0.1 $\log_{10}$ reduction in virus titer) despite being active against *de novo* BVDV infection. However, the combination of mCyd plus interferon alpha 2b reduced virus to undetectable levels by the second passage and clearly showed better efficacy to either monotherapy.

In a follow up study (Figure 14B) of MDBK cells persistently infected with the I-N-dIns noncytopathic strain of BVDV, mCyd was supplied at fixed doses of 0, 2, 4 and 8 μM, while interferon alpha 2b was titrated from 0 to 2,000 IU per ml. Again, interferon alpha 2b was essentially inactive (0.1 log reduction in viral titer), while mCyd alone inhibited BVDV (strain I-N-dIns) propagation in a dose-dependent manner. mCyd at 8 μM reduced virus production by 6.2 $\log_{10}$, to almost background levels.

EXAMPLE 35: RESISTANCE DEVELOPMENT

In early cell culture studies, repeated passaging of a cytopathic strain of BVDV in MDBK cells in the presence of mCyd failed to generate resistant mutants, suggesting that the isolation mCyd-resistant BVDV mutants is difficult. However, studies in cell lines persistently infected with noncytopathic forms of BVDV led to the selection of resistant virus upon relatively prolonged treatment with mCyd at suboptimal therapeutic concentrations of drug (2 to 8 μM, depending on the experiment). In the representative experiment shown in Figure 15A, the virus was no longer detectable after two passages in the presence of 8 μM mCyd, but re-emerged by passage 6. The lower titer of the re-emergent virus is apparent from the data: resistant virus typically has a 10 fold or more lower titer than the wild-type virus and was easily suppressed by co-therapy with IntronA (Figure 15A). The phenotype of

the virus that re-emerged was remarkably different from the initial wild-type virus: as shown in Figure 15B, it yielded much smaller foci (typically, 3 to 10 times smaller in diameter then those of the wild-type virus). This phenotype did not change after prolonged passaging in culture in the presence of the inhibitor (at least 72 days), however, it quickly reverted to the wild-type phenotype (large foci) after the discontinuation of the treatment.

RT-PCR sequencing of the resistant mutant was used to identify the mutation responsible for resistance. Sequencing efforts were focused on the NS5B RNA-dependent RNA polymerase region of BVDV, which was assumed to be the likely target for a nucleoside inhibitor. A specific S405T amino-acid substitution was identified at the start of the highly conserved B domain motif of the polymerase. The B domain is part of the polymerase active site and is thought to be involved in nucleoside binding (Lesburg, C. A., M. B. Cable, et al. *Nature Structural Biology* **1999** 6(10): 937-43). Resistance to nucleosides has been mapped to this domain for other viruses such as HBV (Ono et al, *J. Clin. Invest.* **2001** Feb;107(4):449-55.). To confirm that this mutation was responsible for the observed resistance, the mutation was reintroduced into the backbone of a recombinant molecular clone of BVDV. The resulting clone was indistinguishable in phenotypic properties from the isolated mutant virus, confirming that the S405T mutation is responsible for resistance and that the NS5B RNA-dependent RNA polymerase is the molecular target for mCyd. The highly conserved nature of this motif at the nucleotide sequence (Lai, V. C., C. C. Kao, et al. *J. Virol.* **1999** 73(12): 10129-36) and structural level among positive-strand RNA viruses (including HCV) allows a prediction that the equivalent mutation in the HCV NS5B RNA-dependent RNA polymerase would likely be S282T.

S405T mutant BVDV was refractory to mCyd up to the highest concentrations that could be tested (EC_{50}>32 μM), but was also significantly impaired in viability compared to wild-type virus. As noted above, the S405T mutant exhibited a 1-2 $\log_{10}$ lower titer than wild-type. BVDV and produced much smaller viral plaques. In addition, the mutant virus showed a marked reduction in the rate of a single cycle of replication (>1000-fold lower virus titer at 12h), and accumulated to about 100 fold lower levels than the wild-type virus even after 36 h of replication (Figure 15C). The virus also quickly reverted to wild-type virus upon drug withdrawal. Finally, the mutant was also more sensitive (~40 fold) to treatment with IFN alpha 2b than wild-type as shown in Figure 15D.

A second, additional mutation, C446S, was observed upon further passaging of the S405T mutant virus in the presence of drug. This mutation occurs immediately prior to the

essential GDD motif in the C domain of BVDV NS5B RNA-dependent RNA polymerase. Preliminary studies suggest that a virus bearing both mutations does not replicate significantly better than the S405T mutant, hence the contribution of this mutation to viral fitness remains unclear. Further studies to characterize resistance development are ongoing.

EXAMPLE 36: IN VIVO ANTIVIRAL ACTIVITY OF VAL-MCYD IN AN ANIMAL EFFICACY MODEL

Chimpanzees chronically infected with HCV are the most widely accepted animal model of HCV infection in human patients (Lanford, R. E., C. Bigger, et al. *Ilar J.* **2001** 42(2): 117-26; Grakoui, A., H. L. Hanson, et al. *Hepatology* **2001** 33(3): 489-95). A single *in vivo* study of the oral administration of val-mCyd in the chimpanzee model of chronic hepatitis C virus infection has been conducted.

HCV genotyping on the five chimpanzees was performed by the Southwest Foundation Primate Center as part of their mandated internal Health and Maintenance Program, designed to ascertain the disease status of all animals in the facility to identify potential safety hazards to employees. The five chimpanzees used in this study exhibited a high HCV titer in a genotyping RT PCR assay that distinguishes genotype 1 HCV from all other genotypes, but does not distinguish genotype 1a from 1b. This indicates that the chimpanzees used in this study were infected with genotype 1 HCV (HCV-1).

Table 33: Summary of Val-mCyd *In Vivo* Activity Study in the Chimpanzee Model of Chronic HCV Infection

Study Description	Species (N)	Val-mCyd Doses (mg/kg) (n)	Frequency/ Route of Administration	Study Endpoints
One-week antiviral activity of mCyd in chronically hepatitis C virus (genotype 1)-infected chimpanzees	Chimpanzee (5)	10 and 20 (2 each) [equivalent to 8.3 and 16.6 mpk of free base], and vehicle control (1)	QD x 7 days (PO)	Serum HCV RNA, serum chemistries, CBCs, general well being, and clinical observations

Seven-Day Antiviral Activity Study in the Chimpanzee Model of Chronic Hepatitis C Virus Infection

Four chimpanzees (2 animals per dose group at 10 mg/kg/day or 20 mg/kg/day) received val-mCyd dihydrochloride, freshly dissolved in a flavorful fruit drink vehicle. These doses were equivalent to 8.3 and 16.6 mg/kg/day of the val-mCyd free base, respectively. A fifth animal dosed with vehicle alone provided a placebo control. The study design included three pretreatment bleeds to establish the baseline fluctuation of viral load and three bleeds during the one week of treatment (on days 2, 5 and 7 of therapy) to evaluate antiviral efficacy. The analysis was completed at the end of the one-week dosing period, with no further follow up.

HCV RNA Determination

Serum levels of HCV RNA throughout the study were determined independently by two clinical hospital laboratories. HCV RNA was assayed using a quantitative RT-PCR nucleic acid amplification test (Roche Amplicor HCV Monitor Test, version 2.0). This assay has a lower limit of detection (LLOD) of 600 IU/mL and a linear range of 600-850,000 IU/mL.

To aid in interpretation of the viral load declines seen during therapy, emphasis was placed on determining (i) the extent of fluctuations in baseline HCV viral load in individual animals, and (ii) the inherent variability and reproducibility of the HCV viral load assay. To address these issues, full viral load data sets obtained from the two laboratories were compared. The results from both sites were found to be closely comparable and affirmed both the stability of the pretreatment HCV viral loads as well as the reliability of the HCV Roche Amplicor assay. To present the most balanced view of the study, the mean values derived by combining both data sets were used to generate the results presented in Figures 16 and 17. Figure 16 presents the averaged data for dose cohorts, while Figure 17 presents the individual animal data. The changes in viral load from baseline seen during therapy for each animal at each site are also summarized in Table 34.

The HCV viral load analysis from the two sites revealed that pretreatment HCV viral loads were (i) very similar among all five animals and all 3 dose groups, and (ii) very stable over the 3-week pretreatment period. The mean pretreatment $\log_{10}$ viral load and standard deviations among the five individual animals were 5.8 ± 0.1 (site 1) and 5.6 ± 0.1(site 2). These data indicate that the c.v. (coefficient of variance) of the assay is only around 2% at both sites. The largest fluctuation in HCV viral load seen in any animal during pretreatment was approximately 0.3 $\log_{10}$.

As seen in Figures 16 and 17, once a day oral delivery of val-mCyd produced a rapid antiviral effect that was not seen for the placebo animal, nor during the pretreatment period. Viral titers were substantially reduced from baseline after two days of therapy for all animals receiving val-mCyd, and tended to fall further under continued therapy in the two treatment arms. By the end of treatment (day 7), the mean reductions from baseline HCV viral load were 0.83 $\log_{10}$ and 1.05 $\log_{10}$ for the 8.3 and 16.6 mg/kg/day dose groups, respectively. The titer of the placebo animal remained essentially unchanged from baseline during the therapy period.

An analysis of the data from the two quantification sites on the changes in baseline HCV viral load in response to therapy is presented in Table 34. Overall, the two data sets agree well, confirming the reliability of the assay. With the exception of animal 501, the difference in viral load between the two sites was generally 0.3 $\log_{10}$ or less, similar to the fluctuation observed during the pretreatment period. For animal 501, the discrepancy was closer to 0.5 $\log_{10}$. The viral load drop seen in response to therapy varied from 0.436 (animal 501, site 1) to 1.514 $\log_{10}$ (animal 497, site 2). The latter corresponds to a change in HCV viral load from 535,000 (pretreatment) to 16,500 (day 7) genomes per ml.

Table 34: Summary of Changes in Baseline Log_{10} HCV RNA Viral Load During Therapy

Dose (mpk)	Animal ID	Site	Day 2	Day 5	Day 7
0	499	1	-0.00041	-0.11518	0.14085
		2	-0.06604	0.10612	-0.16273
8.3	500	1	-1.15634	-0.40385	-0.80507
		2	-1.07902	-0.55027	-1.06259
8.3	501	1	-0.25180	-0.36179	-0.43610
		2	-0.45201	-0.71254	-0.90034
16.6	497	1	-0.72148	-0.90704	-1.27723
		2	-0.85561	-1.01993	-1.51351
16.6	498	1	-0.29472	-0.28139	-0.60304
		2	-0.65846	-0.55966	-0.69138

Exposure of Chimpanzees to mCyd

Limited HPLC analyses were perfomed to determine the concentration of mCyd attained in the sera of chimpanzees following dosing with val-mCyd. In sera drawn 1 to 2 hours post dose on days 2 and 5 of dosing, mCyd levels were typically between 2.9 and 12.1

μM (750 and 3100 ng/mL, respectively) in treated animals. No mCyd was detected in pretreatment sera or in the placebo control sera. Within 24 hours of the final dose, serum levels of mCyd had fallen to 0.2 to 0.4 μM (50 and 100 ng/mL, respectively). No mUrd was detected in any sera samples although the methodology used has a lower limit of quantification of 0.4 μM (100 ng/mL) for mUrd.

Safety of mCyd in the Chimpanzee Model of Chronic HCV Infection

Chimpanzees were monitored by trained veterinarians throughout the study for weight loss, temperature, appetite, and general well being, as well as for blood chemistry profile and CBCs. No adverse events due to drug were noted. The drug appeared to be well tolerated by all four treated animals. All five animals lost some weight during the study and showed some aspartate aminotransferase (AST)elevations, but these are normal occurrences related to sedation procedures used, rather than study drug. A single animal experienced an alanine aminotransferase (ALT) flare in the pretreatment period prior to the start of dosing, but the ALT levels diminished during treatment. Thus, this isolated ALT event was not attributable to drug.

EXAMPLE 37: *IN VITRO* METABOLISM

Studies were conducted to determine the stability of val-mCyd and mCyd in human plasma. Val-mCyd was incubated in human plasma at 0, 21 or 37°C and samples analyzed at various time points up to 10 hours (Figure 18). At 37°C, val-mCyd was effectively converted to mCyd, with only 2% of the input val-mCyd remaining after 10 hours. The *in vitro* half-life of val-mCyd in human plasma at 37°C was 1.81 hours. In studies of the *in vitro* stability of mCyd in human plasma, or upon treatment with a crude preparation enriched in human cytidine/deoxycytidine deaminase enzymes, mCyd remained essentially unchanged and no deamination to the uridine derivative of mCyd (mUrd) occurred after incubation at 37°C. Only in rhesus and cynomologus monkey plasma was limited deamination observed. Incubation of mCyd at 37°C in cynomologus monkey plasma yielded 6.7 and 13.0% of mUrd deamination product after 24 and 48 hours, respectively, under conditions where control cytidine analogs were extensively deaminated.

In addition to the TP derivatives of mCyd and mUrd, minor amounts of mCyd-5'-diphosphate, mCyd-DP, roughly 10% the amount of the corresponding TP, were seen in all three cell types. Lesser amounts of mUrd-DP were detected only in two cell types (primary

human hepatocytes and MDBK cells). No monophosphate (MP) metabolites were detected in any cell type. There was no trace of any intracellular mUrd and no evidence for the formation of liponucleotide metabolites such as the 5'-diphosphocholine species seen upon the cellular metabolism of other cytidine analogs.

Figure 19 shows the decay profiles of mCyd-TP determined following exposure of HepG2 cells to 10 μM [^{3}H]-mCyd for 24 hours. The apparent intracellular half-life of the mCyd-TP was 13.9 ± 2.2 hours in HepG2 cells and 7.6 ± 0.6 hours in MDBK cells: the data were not suitable for calculating the half life of mUrd-TP. The long half life of mCyd-TP in human hepatoma cells supports the notion of once-a-day dosing for val-mCyd in clinical trials for HCV therapy. Phosphorylation of mCyd occurred in a dose-dependent manner up to 50 μM drug in all three cell types, as shown for HepG2 cells in Figure 19C. Other than the specific differences noted above, the phosphorylation pattern detected in primary human hepatocytes was qualitatively similar to that obtained using HepG2 or MDBK cells.

Contribution of mUrd

In addition to the intracellular active moiety, mCyd-TP, cells from different species have been shown to produce variable and lesser amounts of a second triphosphate, mUrd-TP, via deamination of intracellular mCyd species. The activity of mUrd-TP against BVDV NS5B RNA-dependent RNA polymerase has not been tested to date but is planned. To date, data from exploratory cell culture studies on the antiviral efficacy and cytotoxicity of mUrd suggest that mUrd (a) is about 10-fold less potent than mCyd against BVDV; (b) has essentially no antiviral activity against a wide spectrum of other viruses; and (c) is negative when tested at high concentrations in a variety of cytotoxicity tests (including bone marrow assays, mitochondrial function assays and incorporation into cellular nucleic acid). Based on these results, it appears that the contribution of mUrd to the overall antiviral activity or cytotoxicity profile of mCyd is likely to be minor. Extensive toxicology coverage for the mUrd metabolite of mCyd exists from subchronic studies conducted with val-mCyd in the monkey.

EXAMPLE 38: CELLULAR PATHWAYS FOR METABOLIC ACTIVATION

The nature of the enzyme responsible for the phosphorylation of mCyd was investigated in substrate competition experiments. Cytidine (Cyd) is a natural substrate of cytosolic uridine-cytidine kinase (UCK), the pyrimidine salvage enzyme responsible for

conversion of Cyd to Cyd-5'-monophosphate (CMP). The intracellular phosphorylation of mCyd to mCyd-TP was reduced in the presence of cytidine or uridine in a dose-dependent fashion with EC_{50} values of 19.17 ± 4.67 μM for cytidine and 20.92 ± 7.10 μM for uridine. In contrast, deoxycytidine, a substrate for the enzyme deoxycytidine kinase (dCK), had little effect on the formation of mCyd-TP with an EC_{50} > 100 μM. The inhibition of mCyd phosphorylation by both cytidine and uridine, but not deoxycytidine, suggests that mCyd is phosphorylated by the pyrimidine salvage enzyme, uridine-cytidine kinase (Van Rompay, A. R., A. Norda, et al. *Mol Pharmacol* 2001 59(5): 1181-6). Further studies are required to confirm the proposed role of this kinase in the activation of mCyd.

EXAMPLE 39: PATHWAYS FOR THE CELLULAR BIOSYNTHESIS OF MURD-TP

As outlined above, mUrd-TP is a minor metabolite arising to varying extents in cells from different species. mUrd does not originate via extracellular deamination of mCyd since mUrd is not seen in the cell medium which also lacks any deamination activities. The cellular metabolism data are consistent with the idea that mUrd-TP arises via the biotransformation of intracellular mCyd species. Consideration of the known ribonucleoside metabolic pathways suggests that the most likely routes involve deamination of one of two mCyd species by two distinct deamination enzymes: either mCyd-MP by a cytidylate deaminase (such as deoxycytidylate deaminase, dCMPD), or of mCyd by cytidine deaminase (CD). Further phosphorylation steps lead to mUrd-TP. These possibilities are under further investigation.

EXAMPLE 40: CLINICAL EVALUATION OF VAL-MCYD

Patients who met eligibility criteria were randomized into the study at Baseline (Day 1), the first day of study drug administration. Each dosing cohort was 12 patients, randomized in a 10:2 ratio to treatment with drug or matching placebo. Patients visited the study center for protocol evaluations on Days 1, 2, 4, 8, 11, and 15. After Day 15, study drug was stopped. Thereafter, patients attended follow-up visits on Days 16, 17, 22, and 29. Pharmacokinetic sampling was performed on the first and last days of treatment (Day 1 and Day 15) on all patients, under fasting conditions.

The antiviral effect of val-mCyd was assessed by (i) the proportion of patients with a ≥ 1.0 $\log_{10}$ decrease from baseline in HCV RNA level at Day 15, (ii) the time to a ≥ 1.0 $\log_{10}$

decrease in serum HCV RNA level, (iii) the change in HCV RNA level from Day 1 to Day 15, (iv) the change in HCV RNA level from Day 1 to Day 29, (v) the proportion of patients who experience return to baseline in serum HCV RNA level by Day 29, and (vi) the relationship of val-mCyd dose to HCV RNA change from Day 1 to Day 15.

Clinical Pharmacokinetics of mCyd after Oral Administration of Escalating Doses of Val-mCyd

Pharmacokinetics were evaluated over a period of 8 h after the first dose on day 1 and after the last dose on day 15, with 24-h trough levels monitored on days 2, 4, 8, 11 and 16, and a 48-h trough on day 17. Plasma concentrations of mCyd, mUrd and Val-mCyd were measured by a HPLC/MS/MS methodology with a lower limit of quantitation (LOQ) at 20 ng/ml.

The pharmacokinetics of mCyd was analyzed using a non-compartmental approach. As presented in the tables below, the principal pharmacokinetic parameters were comparable on day 1 and day 15, indicative of no plasma drug accumulation after repeated dosing. The plasma exposure also appears to be a linear function of dose. As shown in the tables below, principal pharmacokinetic parameters of drug exposure (Cmax and AUC) doubled as doses escalated from 50 to 100 mg.

Table 35: Pharmacokinetic parameters of mCyd at 50 mg

Parameters	C_{max}	T_{max}	$AUC_{0\text{-}inf}$	$t_{1/2}$
	(ng/ml)	(h)	(ng/ml×h)	(h)
Day 1				
Mean	428.1	2.5	3118.7	4.1
SD	175.5	1.1	1246.4	0.6
CV %	41.0	43.2	40.0	13.8
Day 15				
Mean	362.7	2.2	3168.4	4.6
SD	165.7	1.0	1714.8	1.3
CV %	45.7	46.9	54.1	28.6

Table 36: Pharmacokinetic parameters of mCyd at 100 mg

Parameters	C_{max}	T_{max}	AUC_{0-inf}	$t_{1/2}$
	(ng/ml)	(h)	(ng/mlxh)	(h)
Day 1				
Mean	982.1	2.6	6901.7	4.4
SD	453.2	1.0	2445.7	1.1
CV %	46.1	36.2	35.4	25.2
Day 15				
Mean	1054.7	2.0	7667.5	4.2
SD	181.0	0.0	1391.5	0.5
CV %	17.2	0.0	18.1	11.7

The mean day 1 and day 15 plasma kinetic profiles of mCyd at 50 and 100 mg are depicted in the Figure 20.

In summary, following oral administration of val-mCyd, the parent compound mCyd was detectable in the plasma of HCV-infected subjects. mCyd exhibits linear plasma pharmacokinetics in these subjects across the two dose levels thus far examined. There was no apparent accumulation of mCyd in subjects' plasma following 15 days of daily dosing at the doses thus far examined.

Antiviral Activity of mCyd after Oral Administration of Escalating Doses of Val-mCyd Starting at 50 mg/day for 15 Days in HCV-Infected Patients

Serum HCV RNA level were determined with the use of the Amplicor HCV Monitor™ assay v2.0 (Roche Molecular Systems, Branchburg, NJ, USA), which utilizes polymerase chain reaction (PCR) methods. The lower limit of quantification (LLOQ) with this assay was estimated to be approximately 600 IU/mL and the upper limit of quantification (ULOQ) with this assay was estimated to be approximately 500,000 IU/mL.

Serum samples for HCV RNA were obtained at screening (Day –42 to –7) to determine eligibility for the study. The Screening serum HCV RNA values must be ≥ 5 $\log_{10}$ IU/mL by the Amplicor HBV Monitor™ assay at the central study laboratory.

During the study period, serum samples for HCV RNA were obtained at Baseline (Day 1), and at every protocol-stipulated post-Baseline study visit (Days 2, 4, 8, 11, 15, 16, 17, 22, and 29). Serum samples for HCV RNA were also collected during protocol-stipulated follow-up visits for patients prematurely discontinued from the study.

The antiviral activity associated with the first two cohorts (50 and 100 mg per day) in the ongoing study is summarized in the following tables and graphs. Although the duration of dosing was short (15 days) and the initial dose levels low, there were already apparent effects on the levels of HCV RNA in the plasma of infected patients.

Table 37: Summary Statistics of HCV RNA in Log_{10} Scale

		Day										
		-1	1	2	4	8	11	15	16	17	22	29
Treatment												
Placebo	**N**	6	5	5	4	4	4	4	4	3	4	3
	Median	6.45	6.25	6.25	6.52	6.42	6.28	6.58	6.51	6.64	6.35	6.61
	Mean	6.45	6.28	6.40	6.48	6.36	6.34	6.54	6.52	6.50	6.40	6.40
	StdErr	0.25	0.12	0.15	0.18	0.24	0.16	0.11	0.19	0.31	0.23	0.30
50 mg	**N**	10	10	10	10	10	10	10	10	10	10	10
	Median	6.81	6.69	6.58	6.55	6.56	6.46	6.57	6.45	6.54	6.73	6.67
	Mean	6.72	6.72	6.60	6.56	6.62	6.47	6.57	6.57	6.54	6.64	6.71
	StdErr	0.11	0.11	0.12	0.06	0.10	0.09	0.08	0.11	0.08	0.10	0.09
100 mg	**N**	11	10	10	10	9	10	10	9	9	10	4
	Median	6.75	6.93	6.80	6.46	6.59	6.56	6.41	6.40	6.72	6.66	6.71
	Mean	6.60	6.68	6.52	6.43	6.42	6.36	6.30	6.23	6.65	6.53	6.67
	StdErr	0.16	0.24	0.23	0.21	0.24	0.22	0.22	0.23	0.16	0.18	0.17

Table 38: Summary Statistics of Change From Baseline (Day 1) in Log_{10} HCV RNA

		Day								
		2	4	8	11	15	16	17	22	29
Treatment										
Placebo	N	5	4	4	4	4	4	3	4	3
	Median	0.17	0.21	0.15	0.08	0.31	0.21	0.27	0.17	0.09
	Mean	0.12	0.22	0.10	0.08	0.28	0.25	0.15	0.14	0.09
	StdErr	0.09	0.12	0.16	0.06	0.15	0.10	0.18	0.09	0.16
50 mg	N	10	10	10	10	10	10	10	10	10
	Median	-0.07	-0.13	-0.06	-0.26	-0.10	-0.13	-0.21	-0.09	-0.04
	Mean	-0.13	-0.16	-0.11	-0.26	-0.15	-0.15	-0.18	-0.09	-0.01
	StdErr	0.05	0.07	0.05	0.06	0.08	0.05	0.07	0.06	0.10
100 mg	N	10	10	9	10	10	9	9	10	4
	Median	-0.12	-0.24	-0.20	-0.28	-0.43	-0.49	-0.24	-0.19	-0.12
	Mean	-0.16	-0.25	-0.21	-0.32	-0.38	-0.39	-0.18	-0.15	0.13
	StdErr	0.07	0.10	0.16	0.13	0.12	0.14	0.15	0.13	0.28

The clinical evaluation of val-mCyd in the tested patients is shown in Figure 21. This figure depicts the median change from baseline in Log_{10} HCV RNA by visit.

EXAMPLE 41: EVALUATION OF TEST COMPOUNDS

Several of the compounds described herein were tested in the BVDV cell protection assay described above. Figure 22 is a table of the EC_{50} and CC_{50} of representative compounds in a BVDV cell protection assay, to show the efficacy of the compounds.

This invention has been described with reference to its preferred embodiments. Variations and modifications of the invention, will be obvious to those skilled in the art from the foregoing detailed description of the invention. It is intended that all of these variations and modifications be included within the scope of this invention.

Table 1

R^2	R^3	X^1	X^2	Y
acyl	H	H	H	H
acyl	H	H	H	NH_2
acyl	H	H	H	NH-cyclopropyl
acyl	H	H	H	NH-methyl
acyl	H	H	H	NH-ethyl
acyl	H	H	H	NH-acetyl
acyl	H	H	H	OH
acyl	H	H	H	OMe
acyl	H	H	H	OEt
acyl	H	H	H	O-cyclopropyl
acyl	H	H	H	O-acetyl
acyl	H	H	H	SH
acyl	H	H	H	SMe
acyl	H	H	H	SEt
acyl	H	H	H	S-cyclopropyl
acyl	H	H	H	F
acyl	H	H	H	Cl
acyl	H	H	H	Br
acyl	H	H	H	I
acyl	acyl	H	H	H
acyl	acyl	H	H	NH_2
acyl	acyl	H	H	NH-cyclopropyl
acyl	acyl	H	H	NH-methyl
acyl	acyl	H	H	NH-ethyl
acyl	acyl	H	H	NH-acetyl
acyl	acyl	H	H	OH
acyl	acyl	H	H	OMe
acyl	acyl	H	H	OEt
acyl	acyl	H	H	O-cyclopropyl
acyl	acyl	H	H	O-acetyl
acyl	acyl	H	H	SH
acyl	acyl	H	H	SMe
acyl	acyl	H	H	SEt
acyl	acyl	H	H	S-cyclopropyl
acyl	acyl	H	H	F
acyl	acyl	H	H	Cl
acyl	acyl	H	H	Br
acyl	acyl	H	H	I
acyl	amino acid	H	H	H
acyl	amino acid	H	H	NH_2
acyl	amino acid	H	H	NH-cyclopropyl
acyl	amino acid	H	H	NH-methyl
acyl	amino acid	H	H	NH-ethyl
acyl	amino acid	H	H	NH-acetyl
acyl	amino acid	H	H	OH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	H	OMe
acyl	amino acid	H	H	OEt
acyl	amino acid	H	H	O-cyclopropyl
acyl	amino acid	H	H	O-acetyl
acyl	amino acid	H	H	SH
acyl	amino acid	H	H	SMe
acyl	amino acid	H	H	SEt
acyl	amino acid	H	H	S-cyclopropyl
acyl	amino acid	H	H	F
acyl	amino acid	H	H	Cl
acyl	amino acid	H	H	Br
acyl	amino acid	H	H	I
H	acyl	H	H	H
H	acyl	H	H	NH_2
H	acyl	H	H	NH-cyclopropyl
H	acyl	H	H	NH-methyl
H	acyl	H	H	NH-ethyl
H	acyl	H	H	NH-acetyl
H	acyl	H	H	OH
H	acyl	H	H	OMe
H	acyl	H	H	OEt
H	acyl	H	H	O-cyclopropyl
H	acyl	H	H	O-acetyl
H	acyl	H	H	SH
H	acyl	H	H	SMe
H	acyl	H	H	SEt
H	acyl	H	H	S-cyclopropyl
H	acyl	H	H	F
H	acyl	H	H	Cl
H	acyl	H	H	Br
H	acyl	H	H	I
H	amino acid	H	H	H
H	amino acid	H	H	NH_2
H	amino acid	H	H	NH-cyclopropyl
H	amino acid	H	H	NH-methyl
H	amino acid	H	H	NH-ethyl
H	amino acid	H	H	NH-acetyl
H	amino acid	H	H	OH
H	amino acid	H	H	OMe
H	amino acid	H	H	OEt
H	amino acid	H	H	O-cyclopropyl
H	amino acid	H	H	O-acetyl
H	amino acid	H	H	SH
H	amino acid	H	H	SMe
H	amino acid	H	H	SEt
H	amino acid	H	H	S-cyclopropyl
H	amino acid	H	H	F

R^2	R^3	X^1	X^2	Y
H	amino acid	H	H	Cl
H	amino acid	H	H	Br
H	amino acid	H	H	I
amino acid	amino acid	H	H	H
amino acid	amino acid	H	H	NH_2
amino acid	amino acid	H	H	NH-cyclopropyl
amino acid	amino acid	H	H	NH-methyl
amino acid	amino acid	H	H	NH-ethyl
amino acid	amino acid	H	H	NH-acetyl
amino acid	amino acid	H	H	OH
amino acid	amino acid	H	H	OMe
amino acid	amino acid	H	H	OEt
amino acid	amino acid	H	H	O-cyclopropyl
amino acid	amino acid	H	H	O-acetyl
amino acid	amino acid	H	H	SH
amino acid	amino acid	H	H	SMe
amino acid	amino acid	H	H	SEt
amino acid	amino acid	H	H	S-cyclopropyl
amino acid	amino acid	H	H	F
amino acid	amino acid	H	H	Cl
amino acid	amino acid	H	H	Br
amino acid	amino acid	H	H	I
amino acid	H	H	H	H
amino acid	H	H	H	NH_2
amino acid	H	H	H	NH-cyclopropyl
amino acid	H	H	H	NH-methyl
amino acid	H	H	H	NH-ethyl
amino acid	H	H	H	NH-acetyl
amino acid	H	H	H	OH
amino acid	H	H	H	OMe
amino acid	H	H	H	OEt
amino acid	H	H	H	O-cyclopropyl
amino acid	H	H	H	O-acetyl
amino acid	H	H	H	SH
amino acid	H	H	H	SMe
amino acid	H	H	H	SEt
amino acid	H	H	H	S-cyclopropyl
amino acid	H	H	H	F
amino acid	H	H	H	Cl
amino acid	H	H	H	Br
amino acid	H	H	H	I
amino acid	acyl	H	H	H
amino acid	acyl	H	H	NH_2
amino acid	acyl	H	H	NH-cyclopropyl
amino acid	acyl	H	H	NH-methyl
amino acid	acyl	H	H	NH-ethyl
amino acid	acyl	H	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	H	OH
amino acid	acyl	H	H	OMe
amino acid	acyl	H	H	OEt
amino acid	acyl	H	H	O-cyclopropyl
amino acid	acyl	H	H	O-acetyl
amino acid	acyl	H	H	SH
amino acid	acyl	H	H	SMe
amino acid	acyl	H	H	SEt
amino acid	acyl	H	H	S-cyclopropyl
amino acid	acyl	H	H	F
amino acid	acyl	H	H	Cl
amino acid	acyl	H	H	Br
amino acid	acyl	H	H	I
acyl	H	F	H	H
acyl	H	F	H	NH_2
acyl	H	F	H	NH-cyclopropyl
acyl	H	F	H	NH-methyl
acyl	H	F	H	NH-ethyl
acyl	H	F	H	NH-acetyl
acyl	H	F	H	OH
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	H	F	H	O-cyclopropyl
acyl	H	F	H	O-acetyl
acyl	H	F	H	SH
acyl	H	F	H	SMe
acyl	H	F	H	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	H
acyl	acyl	F	H	NH_2
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	H	NH-methyl
acyl	acyl	F	H	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	OH
acyl	acyl	F	H	OMe
acyl	acyl	F	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	H	O-acetyl
acyl	acyl	F	H	SH
acyl	acyl	F	H	SMe
acyl	acyl	F	H	SEt
acyl	acyl	F	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	H	F
acyl	acyl	F	H	Cl
acyl	acyl	F	H	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	H
acyl	amino acid	F	H	NH_2
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	H	NH-acetyl
acyl	amino acid	F	H	OH
acyl	amino acid	F	H	OMe
acyl	amino acid	F	H	OEt
acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	H	SEt
acyl	amino acid	F	H	S-cyclopropyl
acyl	amino acid	F	H	F
acyl	amino acid	F	H	Cl
acyl	amino acid	F	H	Br
acyl	amino acid	F	H	I
H	acyl	F	H	H
H	acyl	F	H	NH_2
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	H	NH-methyl
H	acyl	F	H	NH-ethyl
H	acyl	F	H	NH-acetyl
H	acyl	F	H	OH
H	acyl	F	H	OMe
H	acyl	F	H	OEt
H	acyl	F	H	O-cyclopropyl
H	acyl	F	H	O-acetyl
H	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
H	acyl	F	H	S-cyclopropyl
H	acyl	F	H	F
H	acyl	F	H	Cl
H	acyl	F	H	Br
H	acyl	F	H	I
H	amino acid	F	H	H
H	amino acid	F	H	NH_2
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl
H	amino acid	F	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
H	amino acid	F	H	OMe
H	amino acid	F	H	OEt
H	amino acid	F	H	O-cyclopropyl
H	amino acid	F	H	O-acetyl
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
H	amino acid	F	H	S-cyclopropyl
H	amino acid	F	H	F
H	amino acid	F	H	Cl
H	amino acid	F	H	Br
H	amino acid	F	H	I
amino acid	amino acid	F	H	H
amino acid	amino acid	F	H	NH_2
amino acid	amino acid	F	H	NH-cyclopropyl
amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	H	NH-acetyl
amino acid	amino acid	F	H	OH
amino acid	amino acid	F	H	OMe
amino acid	amino acid	F	H	OEt
amino acid	amino acid	F	H	O-cyclopropyl
amino acid	amino acid	F	H	O-acetyl
amino acid	amino acid	F	H	SH
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	H	SEt
amino acid	amino acid	F	H	S-cyclopropyl
amino acid	amino acid	F	H	F
amino acid	amino acid	F	H	Cl
amino acid	amino acid	F	H	Br
amino acid	amino acid	F	H	I
amino acid	H	F	H	H
amino acid	H	F	H	NH_2
amino acid	H	F	H	NH-cyclopropyl
amino acid	H	F	H	NH-methyl
amino acid	H	F	H	NH-ethyl
amino acid	H	F	H	NH-acetyl
amino acid	H	F	H	OH
amino acid	H	F	H	OMe
amino acid	H	F	H	OEt
amino acid	H	F	H	O-cyclopropyl
amino acid	H	F	H	O-acetyl
amino acid	H	F	H	SH
amino acid	H	F	H	SMe
amino acid	H	F	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	H	F	H	S-cyclopropyl
amino acid	H	F	H	F
amino acid	H	F	H	Cl
amino acid	H	F	H	Br
amino acid	H	F	H	I
amino acid	acyl	F	H	H
amino acid	acyl	F	H	NH_2
amino acid	acyl	F	H	NH-cyclopropyl
amino acid	acyl	F	H	NH-methyl
amino acid	acyl	F	H	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	H	OH
amino acid	acyl	F	H	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	H	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	H	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
amino acid	acyl	F	H	I
acyl	H	H	F	H
acyl	H	H	F	NH_2
acyl	H	H	F	NH-cyclopropyl
acyl	H	H	F	NH-methyl
acyl	H	H	F	NH-ethyl
acyl	H	H	F	NH-acetyl
acyl	H	H	F	OH
acyl	H	H	F	OMe
acyl	H	H	F	OEt
acyl	H	H	F	O-cyclopropyl
acyl	H	H	F	O-acetyl
acyl	H	H	F	SH
acyl	H	H	F	SMe
acyl	H	H	F	SEt
acyl	H	H	F	S-cyclopropyl
acyl	H	H	F	F
acyl	H	H	F	Cl
acyl	H	H	F	Br
acyl	H	H	F	I
acyl	acyl	H	F	H
acyl	acyl	H	F	NH_2
acyl	acyl	H	F	NH-cyclopropyl
acyl	acyl	H	F	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	F	NH-ethyl
acyl	acyl	H	F	NH-acetyl
acyl	acyl	H	F	OH
acyl	acyl	H	F	OMe
acyl	acyl	H	F	OEt
acyl	acyl	H	F	O-cyclopropyl
acyl	acyl	H	F	O-acetyl
acyl	acyl	H	F	SH
acyl	acyl	H	F	SMe
acyl	acyl	H	F	SEt
acyl	acyl	H	F	S-cyclopropyl
acyl	acyl	H	F	F
acyl	acyl	H	F	Cl
acyl	acyl	H	F	Br
acyl	acyl	H	F	I
acyl	amino acid	H	F	H
acyl	amino acid	H	F	NH_2
acyl	amino acid	H	F	NH-cyclopropyl
acyl	amino acid	H	F	NH-methyl
acyl	amino acid	H	F	NH-ethyl
acyl	amino acid	H	F	NH-acetyl
acyl	amino acid	H	F	OH
acyl	amino acid	H	F	OMe
acyl	amino acid	H	F	OEt
acyl	amino acid	H	F	O-cyclopropyl
acyl	amino acid	H	F	O-acetyl
acyl	amino acid	H	F	SH
acyl	amino acid	H	F	SMe
acyl	amino acid	H	F	SEt
acyl	amino acid	H	F	S-cyclopropyl
acyl	amino acid	H	F	F
acyl	amino acid	H	F	Cl
acyl	amino acid	H	F	Br
acyl	amino acid	H	F	I
H	acyl	H	F	H
H	acyl	H	F	NH_2
H	acyl	H	F	NH-cyclopropyl
H	acyl	H	F	NH-methyl
H	acyl	H	F	NH-ethyl
H	acyl	H	F	NH-acetyl
H	acyl	H	F	OH
H	acyl	H	F	OMe
H	acyl	H	F	OEt
H	acyl	H	F	O-cyclopropyl
H	acyl	H	F	O-acetyl
H	acyl	H	F	SH
H	acyl	H	F	SMe

R^2	R^3	X^1	X^2	Y
H	acyl	H	F	SEt
H	acyl	H	F	S-cyclopropyl
H	acyl	H	F	F
H	acyl	H	F	Cl
H	acyl	H	F	Br
H	acyl	H	F	I
H	amino acid	H	F	H
H	amino acid	H	F	NH_2
H	amino acid	H	F	NH-cyclopropyl
H	amino acid	H	F	NH-methyl
H	amino acid	H	F	NH-ethyl
H	amino acid	H	F	NH-acetyl
H	amino acid	H	F	OH
H	amino acid	H	F	OMe
H	amino acid	H	F	OEt
H	amino acid	H	F	O-cyclopropyl
H	amino acid	H	F	O-acetyl
H	amino acid	H	F	SH
H	amino acid	H	F	SMe
H	amino acid	H	F	SEt
H	amino acid	H	F	S-cyclopropyl
H	amino acid	H	F	F
H	amino acid	H	F	Cl
H	amino acid	H	F	Br
H	amino acid	H	F	I
amino acid	amino acid	H	F	H
amino acid	amino acid	H	F	NH_2
amino acid	amino acid	H	F	NH-cyclopropyl
amino acid	amino acid	H	F	NH-methyl
amino acid	amino acid	H	F	NH-ethyl
amino acid	amino acid	H	F	NH-acetyl
amino acid	amino acid	H	F	OH
amino acid	amino acid	H	F	OMe
amino acid	amino acid	H	F	OEt
amino acid	amino acid	H	F	O-cyclopropyl
amino acid	amino acid	H	F	O-acetyl
amino acid	amino acid	H	F	SH
amino acid	amino acid	H	F	SMe
amino acid	amino acid	H	F	SEt
amino acid	amino acid	H	F	S-cyclopropyl
amino acid	amino acid	H	F	F
amino acid	amino acid	H	F	Cl
amino acid	amino acid	H	F	Br
amino acid	amino acid	H	F	I
amino acid	H	H	F	H
amino acid	H	H	F	NH_2
amino acid	H	H	F	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	F	NH-methyl
amino acid	H	H	F	NH-ethyl
amino acid	H	H	F	NH-acetyl
amino acid	H	H	F	OH
amino acid	H	H	F	OMe
amino acid	H	H	F	OEt
amino acid	H	H	F	O-cyclopropyl
amino acid	H	H	F	O-acetyl
amino acid	H	H	F	SH
amino acid	H	H	F	SMe
amino acid	H	H	F	SEt
amino acid	H	H	F	S-cyclopropyl
amino acid	H	H	F	F
amino acid	H	H	F	Cl
amino acid	H	H	F	Br
amino acid	H	H	F	I
amino acid	acyl	H	F	H
amino acid	acyl	H	F	NH_2
amino acid	acyl	H	F	NH-cyclopropyl
amino acid	acyl	H	F	NH-methyl
amino acid	acyl	H	F	NH-ethyl
amino acid	acyl	H	F	NH-acetyl
amino acid	acyl	H	F	OH
amino acid	acyl	H	F	OMe
amino acid	acyl	H	F	OEt
amino acid	acyl	H	F	O-cyclopropyl
amino acid	acyl	H	F	O-acetyl
amino acid	acyl	H	F	SH
amino acid	acyl	H	F	SMe
amino acid	acyl	H	F	SEt
amino acid	acyl	H	F	S-cyclopropyl
amino acid	acyl	H	F	F
amino acid	acyl	H	F	Cl
amino acid	acyl	H	F	Br
amino acid	acyl	H	F	I
acyl	H	NH_2	H	H
acyl	H	NH_2	H	NH_2
acyl	H	NH_2	H	NH-cyclopropyl
acyl	H	NH_2	H	NH-methyl
acyl	H	NH_2	H	NH-ethyl
acyl	H	NH_2	H	NH-acetyl
acyl	H	NH_2	H	OH
acyl	H	NH_2	H	OMe
acyl	H	NH_2	H	OEt
acyl	H	NH_2	H	O-cyclopropyl
acyl	H	NH_2	H	O-acetyl
acyl	H	NH_2	H	SH

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	H	SMe
acyl	H	NH_2	H	SEt
acyl	H	NH_2	H	S-cyclopropyl
acyl	H	NH_2	H	F
acyl	H	NH_2	H	Cl
acyl	H	NH_2	H	Br
acyl	H	NH_2	H	I
acyl	acyl	NH_2	H	H
acyl	acyl	NH_2	H	NH_2
acyl	acyl	NH_2	H	NH-cyclopropyl
acyl	acyl	NH_2	H	NH-methyl
acyl	acyl	NH_2	H	NH-ethyl
acyl	acyl	NH_2	H	NH-acetyl
acyl	acyl	NH_2	H	OH
acyl	acyl	NH_2	H	OMe
acyl	acyl	NH_2	H	OEt
acyl	acyl	NH_2	H	O-cyclopropyl
acyl	acyl	NH_2	H	O-acetyl
acyl	acyl	NH_2	H	SH
acyl	acyl	NH_2	H	SMe
acyl	acyl	NH_2	H	SEt
acyl	acyl	NH_2	H	S-cyclopropyl
acyl	acyl	NH_2	H	F
acyl	acyl	NH_2	H	Cl
acyl	acyl	NH_2	H	Br
acyl	acyl	NH_2	H	I
acyl	amino acid	NH_2	H	H
acyl	amino acid	NH_2	H	NH_2
acyl	amino acid	NH_2	H	NH-cyclopropyl
acyl	amino acid	NH_2	H	NH-methyl
acyl	amino acid	NH_2	H	NH-ethyl
acyl	amino acid	NH_2	H	NH-acetyl
acyl	amino acid	NH_2	H	OH
acyl	amino acid	NH_2	H	OMe
acyl	amino acid	NH_2	H	OEt
acyl	amino acid	NH_2	H	O-cyclopropyl
acyl	amino acid	NH_2	H	O-acetyl
acyl	amino acid	NH_2	H	SH
acyl	amino acid	NH_2	H	SMe
acyl	amino acid	NH_2	H	SEt
acyl	amino acid	NH_2	H	S-cyclopropyl
acyl	amino acid	NH_2	H	F
acyl	amino acid	NH_2	H	Cl
acyl	amino acid	NH_2	H	Br
acyl	amino acid	NH_2	H	I
H	acyl	NH_2	H	H
H	acyl	NH_2	H	NH_2

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	H	NH-cyclopropyl
H	acyl	NH_2	H	NH-methyl
H	acyl	NH_2	H	NH-ethyl
H	acyl	NH_2	H	NH-acetyl
H	acyl	NH_2	H	OH
H	acyl	NH_2	H	OMe
H	acyl	NH_2	H	OEt
H	acyl	NH_2	H	O-cyclopropyl
H	acyl	NH_2	H	O-acetyl
H	acyl	NH_2	H	SH
H	acyl	NH_2	H	SMe
H	acyl	NH_2	H	SEt
H	acyl	NH_2	H	S-cyclopropyl
H	acyl	NH_2	H	F
H	acyl	NH_2	H	Cl
H	acyl	NH_2	H	Br
H	acyl	NH_2	H	I
H	amino acid	NH_2	H	H
H	amino acid	NH_2	H	NH_2
H	amino acid	NH_2	H	NH-cyclopropyl
H	amino acid	NH_2	H	NH-methyl
H	amino acid	NH_2	H	NH-ethyl
H	amino acid	NH_2	H	NH-acetyl
H	amino acid	NH_2	H	OH
H	amino acid	NH_2	H	OMe
H	amino acid	NH_2	H	OEt
H	amino acid	NH_2	H	O-cyclopropyl
H	amino acid	NH_2	H	O-acetyl
H	amino acid	NH_2	H	SH
H	amino acid	NH_2	H	SMe
H	amino acid	NH_2	H	SEt
H	amino acid	NH_2	H	S-cyclopropyl
H	amino acid	NH_2	H	F
H	amino acid	NH_2	H	Cl
H	amino acid	NH_2	H	Br
H	amino acid	NH_2	H	I
amino acid	amino acid	NH_2	H	H
amino acid	amino acid	NH_2	H	NH_2
amino acid	amino acid	NH_2	H	NH-cyclopropyl
amino acid	amino acid	NH_2	H	NH-methyl
amino acid	amino acid	NH_2	H	NH-ethyl
amino acid	amino acid	NH_2	H	NH-acetyl
amino acid	amino acid	NH_2	H	OH
amino acid	amino acid	NH_2	H	OMe
amino acid	amino acid	NH_2	H	OEt
amino acid	amino acid	NH_2	H	O-cyclopropyl
amino acid	amino acid	NH_2	H	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	H	SH
amino acid	amino acid	NH_2	H	SMe
amino acid	amino acid	NH_2	H	SEt
amino acid	amino acid	NH_2	H	S-cyclopropyl
amino acid	amino acid	NH_2	H	F
amino acid	amino acid	NH_2	H	Cl
amino acid	amino acid	NH_2	H	Br
amino acid	amino acid	NH_2	H	I
amino acid	H	NH_2	H	H
amino acid	H	NH_2	H	NH_2
amino acid	H	NH_2	H	NH-cyclopropyl
amino acid	H	NH_2	H	NH-methyl
amino acid	H	NH_2	H	NH-ethyl
amino acid	H	NH_2	H	NH-acetyl
amino acid	H	NH_2	H	OH
amino acid	H	NH_2	H	OMe
amino acid	H	NH_2	H	OEt
amino acid	H	NH_2	H	O-cyclopropyl
amino acid	H	NH_2	H	O-acetyl
amino acid	H	NH_2	H	SH
amino acid	H	NH_2	H	SMe
amino acid	H	NH_2	H	SEt
amino acid	H	NH_2	H	S-cyclopropyl
amino acid	H	NH_2	H	F
amino acid	H	NH_2	H	Cl
amino acid	H	NH_2	H	Br
amino acid	H	NH_2	H	I
amino acid	acyl	NH_2	H	H
amino acid	acyl	NH_2	H	NH_2
amino acid	acyl	NH_2	H	NH-cyclopropyl
amino acid	acyl	NH_2	H	NH-methyl
amino acid	acyl	NH_2	H	NH-ethyl
amino acid	acyl	NH_2	H	NH-acetyl
amino acid	acyl	NH_2	H	OH
amino acid	acyl	NH_2	H	OMe
amino acid	acyl	NH_2	H	OEt
amino acid	acyl	NH_2	H	O-cyclopropyl
amino acid	acyl	NH_2	H	O-acetyl
amino acid	acyl	NH_2	H	SH
amino acid	acyl	NH_2	H	SMe
amino acid	acyl	NH_2	H	SEt
amino acid	acyl	NH_2	H	S-cyclopropyl
amino acid	acyl	NH_2	H	F
amino acid	acyl	NH_2	H	Cl
amino acid	acyl	NH_2	H	Br
amino acid	acyl	NH_2	H	I
acyl	H	H	NH_2	H

R^2	R^3	X^1	X^2	Y
acyl	H	H	NH_2	NH_2
acyl	H	H	NH_2	NH-cyclopropyl
acyl	H	H	NH_2	NH-methyl
acyl	H	H	NH_2	NH-ethyl
acyl	H	H	NH_2	NH-acetyl
acyl	H	H	NH_2	OH
acyl	H	H	NH_2	OMe
acyl	H	H	NH_2	OEt
acyl	H	H	NH_2	O-cyclopropyl
acyl	H	H	NH_2	O-acetyl
acyl	H	H	NH_2	SH
acyl	H	H	NH_2	SMe
acyl	H	H	NH_2	SEt
acyl	H	H	NH_2	S-cyclopropyl
acyl	H	H	NH_2	F
acyl	H	H	NH_2	Cl
acyl	H	H	NH_2	Br
acyl	H	H	NH_2	I
acyl	acyl	H	NH_2	H
acyl	acyl	H	NH_2	NH_2
acyl	acyl	H	NH_2	NH-cyclopropyl
acyl	acyl	H	NH_2	NH-methyl
acyl	acyl	H	NH_2	NH-ethyl
acyl	acyl	H	NH_2	NH-acetyl
acyl	acyl	H	NH_2	OH
acyl	acyl	H	NH_2	OMe
acyl	acyl	H	NH_2	OEt
acyl	acyl	H	NH_2	O-cyclopropyl
acyl	acyl	H	NH_2	O-acetyl
acyl	acyl	H	NH_2	SH
acyl	acyl	H	NH_2	SMe
acyl	acyl	H	NH_2	SEt
acyl	acyl	H	NH_2	S-cyclopropyl
acyl	acyl	H	NH_2	F
acyl	acyl	H	NH_2	Cl
acyl	acyl	H	NH_2	Br
acyl	acyl	H	NH_2	I
acyl	amino acid	H	NH_2	H
acyl	amino acid	H	NH_2	NH_2
acyl	amino acid	H	NH_2	NH-cyclopropyl
acyl	amino acid	H	NH_2	NH-methyl
acyl	amino acid	H	NH_2	NH-ethyl
acyl	amino acid	H	NH_2	NH-acetyl
acyl	amino acid	H	NH_2	OH
acyl	amino acid	H	NH_2	OMe
acyl	amino acid	H	NH_2	OEt
acyl	amino acid	H	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	NH_2	O-acetyl
acyl	amino acid	H	NH_2	SH
acyl	amino acid	H	NH_2	SMe
acyl	amino acid	H	NH_2	SEt
acyl	amino acid	H	NH_2	S-cyclopropyl
acyl	amino acid	H	NH_2	F
acyl	amino acid	H	NH_2	Cl
acyl	amino acid	H	NH_2	Br
acyl	amino acid	H	NH_2	I
H	acyl	H	NH_2	H
H	acyl	H	NH_2	NH_2
H	acyl	H	NH_2	NH-cyclopropyl
H	acyl	H	NH_2	NH-methyl
H	acyl	H	NH_2	NH-ethyl
H	acyl	H	NH_2	NH-acetyl
H	acyl	H	NH_2	OH
H	acyl	H	NH_2	OMe
H	acyl	H	NH_2	OEt
H	acyl	H	NH_2	O-cyclopropyl
H	acyl	H	NH_2	O-acetyl
H	acyl	H	NH_2	SH
H	acyl	H	NH_2	SMe
H	acyl	H	NH_2	SEt
H	acyl	H	NH_2	S-cyclopropyl
H	acyl	H	NH_2	F
H	acyl	H	NH_2	Cl
H	acyl	H	NH_2	Br
H	acyl	H	NH_2	I
H	amino acid	H	NH_2	H
H	amino acid	H	NH_2	NH_2
H	amino acid	H	NH_2	NH-cyclopropyl
H	amino acid	H	NH_2	NH-methyl
H	amino acid	H	NH_2	NH-ethyl
H	amino acid	H	NH_2	NH-acetyl
H	amino acid	H	NH_2	OH
H	amino acid	H	NH_2	OMe
H	amino acid	H	NH_2	OEt
H	amino acid	H	NH_2	O-cyclopropyl
H	amino acid	H	NH_2	O-acetyl
H	amino acid	H	NH_2	SH
H	amino acid	H	NH_2	SMe
H	amino acid	H	NH_2	SEt
H	amino acid	H	NH_2	S-cyclopropyl
H	amino acid	H	NH_2	F
H	amino acid	H	NH_2	Cl
H	amino acid	H	NH_2	Br
H	amino acid	H	NH_2	I

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	H	NH_2	H
amino acid	amino acid	H	NH_2	NH_2
amino acid	amino acid	H	NH_2	NH-cyclopropyl
amino acid	amino acid	H	NH_2	NH-methyl
amino acid	amino acid	H	NH_2	NH-ethyl
amino acid	amino acid	H	NH_2	NH-acetyl
amino acid	amino acid	H	NH_2	OH
amino acid	amino acid	H	NH_2	OMe
amino acid	amino acid	H	NH_2	OEt
amino acid	amino acid	H	NH_2	O-cyclopropyl
amino acid	amino acid	H	NH_2	O-acetyl
amino acid	amino acid	H	NH_2	SH
amino acid	amino acid	H	NH_2	SMe
amino acid	amino acid	H	NH_2	SEt
amino acid	amino acid	H	NH_2	S-cyclopropyl
amino acid	amino acid	H	NH_2	F
amino acid	amino acid	H	NH_2	Cl
amino acid	amino acid	H	NH_2	Br
amino acid	amino acid	H	NH_2	I
amino acid	H	H	NH_2	H
amino acid	H	H	NH_2	NH_2
amino acid	H	H	NH_2	NH-cyclopropyl
amino acid	H	H	NH_2	NH-methyl
amino acid	H	H	NH_2	NH-ethyl
amino acid	H	H	NH_2	NH-acetyl
amino acid	H	H	NH_2	OH
amino acid	H	H	NH_2	OMe
amino acid	H	H	NH_2	OEt
amino acid	H	H	NH_2	O-cyclopropyl
amino acid	H	H	NH_2	O-acetyl
amino acid	H	H	NH_2	SH
amino acid	H	H	NH_2	SMe
amino acid	H	H	NH_2	SEt
amino acid	H	H	NH_2	S-cyclopropyl
amino acid	H	H	NH_2	F
amino acid	H	H	NH_2	Cl
amino acid	H	H	NH_2	Br
amino acid	H	H	NH_2	I
amino acid	acyl	H	NH_2	H
amino acid	acyl	H	NH_2	NH_2
amino acid	acyl	H	NH_2	NH-cyclopropyl
amino acid	acyl	H	NH_2	NH-methyl
amino acid	acyl	H	NH_2	NH-ethyl
amino acid	acyl	H	NH_2	NH-acetyl
amino acid	acyl	H	NH_2	OH
amino acid	acyl	H	NH_2	OMe
amino acid	acyl	H	NH_2	OEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	NH_2	O-cyclopropyl
amino acid	acyl	H	NH_2	O-acetyl
amino acid	acyl	H	NH_2	SH
amino acid	acyl	H	NH_2	SMe
amino acid	acyl	H	NH_2	SEt
amino acid	acyl	H	NH_2	S-cyclopropyl
amino acid	acyl	H	NH_2	F
amino acid	acyl	H	NH_2	Cl
amino acid	acyl	H	NH_2	Br
amino acid	acyl	H	NH_2	I
acyl	H	NH_2	NH_2	H
acyl	H	NH_2	NH_2	NH_2
acyl	H	NH_2	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH_2	NH-methyl
acyl	H	NH_2	NH_2	NH-ethyl
acyl	H	NH_2	NH_2	NH-acetyl
acyl	H	NH_2	NH_2	OH
acyl	H	NH_2	NH_2	OMe
acyl	H	NH_2	NH_2	OEt
acyl	H	NH_2	NH_2	O-cyclopropyl
acyl	H	NH_2	NH_2	O-acetyl
acyl	H	NH_2	NH_2	SH
acyl	H	NH_2	NH_2	SMe
acyl	H	NH_2	NH_2	SEt
acyl	H	NH_2	NH_2	S-cyclopropyl
acyl	H	NH_2	NH_2	F
acyl	H	NH_2	NH_2	Cl
acyl	H	NH_2	NH_2	Br
acyl	H	NH_2	NH_2	I
acyl	acyl	NH_2	NH_2	H
acyl	acyl	NH_2	NH_2	NH_2
acyl	acyl	NH_2	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH_2	NH-methyl
acyl	acyl	NH_2	NH_2	NH-ethyl
acyl	acyl	NH_2	NH_2	NH-acetyl
acyl	acyl	NH_2	NH_2	OH
acyl	acyl	NH_2	NH_2	OMe
acyl	acyl	NH_2	NH_2	OEt
acyl	acyl	NH_2	NH_2	O-cyclopropyl
acyl	acyl	NH_2	NH_2	O-acetyl
acyl	acyl	NH_2	NH_2	SH
acyl	acyl	NH_2	NH_2	SMe
acyl	acyl	NH_2	NH_2	SEt
acyl	acyl	NH_2	NH_2	S-cyclopropyl
acyl	acyl	NH_2	NH_2	F
acyl	acyl	NH_2	NH_2	Cl
acyl	acyl	NH_2	NH_2	Br

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	NH_2	I
acyl	amino acid	NH_2	NH_2	H
acyl	amino acid	NH_2	NH_2	NH_2
acyl	amino acid	NH_2	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH_2	NH-methyl
acyl	amino acid	NH_2	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH_2	NH-acetyl
acyl	amino acid	NH_2	NH_2	OH
acyl	amino acid	NH_2	NH_2	OMe
acyl	amino acid	NH_2	NH_2	OEt
acyl	amino acid	NH_2	NH_2	O-cyclopropyl
acyl	amino acid	NH_2	NH_2	O-acetyl
acyl	amino acid	NH_2	NH_2	SH
acyl	amino acid	NH_2	NH_2	SMe
acyl	amino acid	NH_2	NH_2	SEt
acyl	amino acid	NH_2	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	NH_2	F
acyl	amino acid	NH_2	NH_2	Cl
acyl	amino acid	NH_2	NH_2	Br
acyl	amino acid	NH_2	NH_2	I
H	acyl	NH_2	NH_2	H
H	acyl	NH_2	NH_2	NH_2
H	acyl	NH_2	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH_2	NH-methyl
H	acyl	NH_2	NH_2	NH-ethyl
H	acyl	NH_2	NH_2	NH-acetyl
H	acyl	NH_2	NH_2	OH
H	acyl	NH_2	NH_2	OMe
H	acyl	NH_2	NH_2	OEt
H	acyl	NH_2	NH_2	O-cyclopropyl
H	acyl	NH_2	NH_2	O-acetyl
H	acyl	NH_2	NH_2	SH
H	acyl	NH_2	NH_2	SMe
H	acyl	NH_2	NH_2	SEt
H	acyl	NH_2	NH_2	S-cyclopropyl
H	acyl	NH_2	NH_2	F
H	acyl	NH_2	NH_2	Cl
H	acyl	NH_2	NH_2	Br
H	acyl	NH_2	NH_2	I
H	amino acid	NH_2	NH_2	H
H	amino acid	NH_2	NH_2	NH_2
H	amino acid	NH_2	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH_2	NH-methyl
H	amino acid	NH_2	NH_2	NH-ethyl
H	amino acid	NH_2	NH_2	NH-acetyl
H	amino acid	NH_2	NH_2	OH
H	amino acid	NH_2	NH_2	OMe

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	NH_2	OEt
H	amino acid	NH_2	NH_2	O-cyclopropyl
H	amino acid	NH_2	NH_2	O-acetyl
H	amino acid	NH_2	NH_2	SH
H	amino acid	NH_2	NH_2	SMe
H	amino acid	NH_2	NH_2	SEt
H	amino acid	NH_2	NH_2	S-cyclopropyl
H	amino acid	NH_2	NH_2	F
H	amino acid	NH_2	NH_2	Cl
H	amino acid	NH_2	NH_2	Br
H	amino acid	NH_2	NH_2	I
amino acid	amino acid	NH_2	NH_2	H
amino acid	amino acid	NH_2	NH_2	NH_2
amino acid	amino acid	NH_2	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH_2	NH-acetyl
amino acid	amino acid	NH_2	NH_2	OH
amino acid	amino acid	NH_2	NH_2	OMe
amino acid	amino acid	NH_2	NH_2	OEt
amino acid	amino acid	NH_2	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	NH_2	O-acetyl
amino acid	amino acid	NH_2	NH_2	SH
amino acid	amino acid	NH_2	NH_2	SMe
amino acid	amino acid	NH_2	NH_2	SEt
amino acid	amino acid	NH_2	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	NH_2	F
amino acid	amino acid	NH_2	NH_2	Cl
amino acid	amino acid	NH_2	NH_2	Br
amino acid	amino acid	NH_2	NH_2	I
amino acid	H	NH_2	NH_2	H
amino acid	H	NH_2	NH_2	NH_2
amino acid	H	NH_2	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH_2	NH-methyl
amino acid	H	NH_2	NH_2	NH-ethyl
amino acid	H	NH_2	NH_2	NH-acetyl
amino acid	H	NH_2	NH_2	OH
amino acid	H	NH_2	NH_2	OMe
amino acid	H	NH_2	NH_2	OEt
amino acid	H	NH_2	NH_2	O-cyclopropyl
amino acid	H	NH_2	NH_2	O-acetyl
amino acid	H	NH_2	NH_2	SH
amino acid	H	NH_2	NH_2	SMe
amino acid	H	NH_2	NH_2	SEt
amino acid	H	NH_2	NH_2	S-cyclopropyl
amino acid	H	NH_2	NH_2	F
amino acid	H	NH_2	NH_2	Cl

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	NH_2	Br
amino acid	H	NH_2	NH_2	I
amino acid	acyl	NH_2	NH_2	H
amino acid	acyl	NH_2	NH_2	NH_2
amino acid	acyl	NH_2	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH_2	NH-methyl
amino acid	acyl	NH_2	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH_2	NH-acetyl
amino acid	acyl	NH_2	NH_2	OH
amino acid	acyl	NH_2	NH_2	OMe
amino acid	acyl	NH_2	NH_2	OEt
amino acid	acyl	NH_2	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	NH_2	O-acetyl
amino acid	acyl	NH_2	NH_2	SH
amino acid	acyl	NH_2	NH_2	SMe
amino acid	acyl	NH_2	NH_2	SEt
amino acid	acyl	NH_2	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	NH_2	F
amino acid	acyl	NH_2	NH_2	Cl
amino acid	acyl	NH_2	NH_2	Br
amino acid	acyl	NH_2	NH_2	I
acyl	H	OH	NH_2	H
acyl	H	OH	NH_2	NH_2
acyl	H	OH	NH_2	NH-cyclopropyl
acyl	H	OH	NH_2	NH-methyl
acyl	H	OH	NH_2	NH-ethyl
acyl	H	OH	NH_2	NH-acetyl
acyl	H	OH	NH_2	OH
acyl	H	OH	NH_2	OMe
acyl	H	OH	NH_2	OEt
acyl	H	OH	NH_2	O-cyclopropyl
acyl	H	OH	NH_2	O-acetyl
acyl	H	OH	NH_2	SH
acyl	H	OH	NH_2	SMe
acyl	H	OH	NH_2	SEt
acyl	H	OH	NH_2	S-cyclopropyl
acyl	H	OH	NH_2	F
acyl	H	OH	NH_2	Cl
acyl	H	OH	NH_2	Br
acyl	H	OH	NH_2	I
acyl	acyl	OH	NH_2	H
acyl	acyl	OH	NH_2	NH_2
acyl	acyl	OH	NH_2	NH-cyclopropyl
acyl	acyl	OH	NH_2	NH-methyl
acyl	acyl	OH	NH_2	NH-ethyl
acyl	acyl	OH	NH_2	NH-acetyl
acyl	acyl	OH	NH_2	OH

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	NH_2	OMe
acyl	acyl	OH	NH_2	OEt
acyl	acyl	OH	NH_2	O-cyclopropyl
acyl	acyl	OH	NH_2	O-acetyl
acyl	acyl	OH	NH_2	SH
acyl	acyl	OH	NH_2	SMe
acyl	acyl	OH	NH_2	SEt
acyl	acyl	OH	NH_2	S-cyclopropyl
acyl	acyl	OH	NH_2	F
acyl	acyl	OH	NH_2	Cl
acyl	acyl	OH	NH_2	Br
acyl	acyl	OH	NH_2	I
acyl	amino acid	OH	NH_2	H
acyl	amino acid	OH	NH_2	NH_2
acyl	amino acid	OH	NH_2	NH-cyclopropyl
acyl	amino acid	OH	NH_2	NH-methyl
acyl	amino acid	OH	NH_2	NH-ethyl
acyl	amino acid	OH	NH_2	NH-acetyl
acyl	amino acid	OH	NH_2	OH
acyl	amino acid	OH	NH_2	OMe
acyl	amino acid	OH	NH_2	OEt
acyl	amino acid	OH	NH_2	O-cyclopropyl
acyl	amino acid	OH	NH_2	O-acetyl
acyl	amino acid	OH	NH_2	SH
acyl	amino acid	OH	NH_2	SMe
acyl	amino acid	OH	NH_2	SEt
acyl	amino acid	OH	NH_2	S-cyclopropyl
acyl	amino acid	OH	NH_2	F
acyl	amino acid	OH	NH_2	Cl
acyl	amino acid	OH	NH_2	Br
acyl	amino acid	OH	NH_2	I
H	acyl	OH	NH_2	H
H	acyl	OH	NH_2	NH_2
H	acyl	OH	NH_2	NH-cyclopropyl
H	acyl	OH	NH_2	NH-methyl
H	acyl	OH	NH_2	NH-ethyl
H	acyl	OH	NH_2	NH-acetyl
H	acyl	OH	NH_2	OH
H	acyl	OH	NH_2	OMe
H	acyl	OH	NH_2	OEt
H	acyl	OH	NH_2	O-cyclopropyl
H	acyl	OH	NH_2	O-acetyl
H	acyl	OH	NH_2	SH
H	acyl	OH	NH_2	SMe
H	acyl	OH	NH_2	SEt
H	acyl	OH	NH_2	S-cyclopropyl
H	acyl	OH	NH_2	F

R^2	R^3	X^1	X^2	Y
H	acyl	OH	NH_2	Cl
H	acyl	OH	NH_2	Br
H	acyl	OH	NH_2	I
H	amino acid	OH	NH_2	H
H	amino acid	OH	NH_2	NH_2
H	amino acid	OH	NH_2	NH-cyclopropyl
H	amino acid	OH	NH_2	NH-methyl
H	amino acid	OH	NH_2	NH-ethyl
H	amino acid	OH	NH_2	NH-acetyl
H	amino acid	OH	NH_2	OH
H	amino acid	OH	NH_2	OMe
H	amino acid	OH	NH_2	OEt
H	amino acid	OH	NH_2	O-cyclopropyl
H	amino acid	OH	NH_2	O-acetyl
H	amino acid	OH	NH_2	SH
H	amino acid	OH	NH_2	SMe
H	amino acid	OH	NH_2	SEt
H	amino acid	OH	NH_2	S-cyclopropyl
H	amino acid	OH	NH_2	F
H	amino acid	OH	NH_2	Cl
H	amino acid	OH	NH_2	Br
H	amino acid	OH	NH_2	I
amino acid	amino acid	OH	NH_2	H
amino acid	amino acid	OH	NH_2	NH_2
amino acid	amino acid	OH	NH_2	NH-cyclopropyl
amino acid	amino acid	OH	NH_2	NH-methyl
amino acid	amino acid	OH	NH_2	NH-ethyl
amino acid	amino acid	OH	NH_2	NH-acetyl
amino acid	amino acid	OH	NH_2	OH
amino acid	amino acid	OH	NH_2	OMe
amino acid	amino acid	OH	NH_2	OEt
amino acid	amino acid	OH	NH_2	O-cyclopropyl
amino acid	amino acid	OH	NH_2	O-acetyl
amino acid	amino acid	OH	NH_2	SH
amino acid	amino acid	OH	NH_2	SMe
amino acid	amino acid	OH	NH_2	SEt
amino acid	amino acid	OH	NH_2	S-cyclopropyl
amino acid	amino acid	OH	NH_2	F
amino acid	amino acid	OH	NH_2	Cl
amino acid	amino acid	OH	NH_2	Br
amino acid	amino acid	OH	NH_2	I
amino acid	H	OH	NH_2	H
amino acid	H	OH	NH_2	NH_2
amino acid	H	OH	NH_2	NH-cyclopropyl
amino acid	H	OH	NH_2	NH-methyl
amino acid	H	OH	NH_2	NH-ethyl
amino acid	H	OH	NH_2	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	NH_2	OH
amino acid	H	OH	NH_2	OMe
amino acid	H	OH	NH_2	OEt
amino acid	H	OH	NH_2	O-cyclopropyl
amino acid	H	OH	NH_2	O-acetyl
amino acid	H	OH	NH_2	SH
amino acid	H	OH	NH_2	SMe
amino acid	H	OH	NH_2	SEt
amino acid	H	OH	NH_2	S-cyclopropyl
amino acid	H	OH	NH_2	F
amino acid	H	OH	NH_2	Cl
amino acid	H	OH	NH_2	Br
amino acid	H	OH	NH_2	I
amino acid	acyl	OH	NH_2	H
amino acid	acyl	OH	NH_2	NH_2
amino acid	acyl	OH	NH_2	NH-cyclopropyl
amino acid	acyl	OH	NH_2	NH-methyl
amino acid	acyl	OH	NH_2	NH-ethyl
amino acid	acyl	OH	NH_2	NH-acetyl
amino acid	acyl	OH	NH_2	OH
amino acid	acyl	OH	NH_2	OMe
amino acid	acyl	OH	NH_2	OEt
amino acid	acyl	OH	NH_2	O-cyclopropyl
amino acid	acyl	OH	NH_2	O-acetyl
amino acid	acyl	OH	NH_2	SH
amino acid	acyl	OH	NH_2	SMe
amino acid	acyl	OH	NH_2	SEt
amino acid	acyl	OH	NH_2	S-cyclopropyl
amino acid	acyl	OH	NH_2	F
amino acid	acyl	OH	NH_2	Cl
amino acid	acyl	OH	NH_2	Br
amino acid	acyl	OH	NH_2	I
acyl	H	OH	H	H
acyl	H	OH	H	NH_2
acyl	H	OH	H	NH-cyclopropyl
acyl	H	OH	H	NH-methyl
acyl	H	OH	H	NH-ethyl
acyl	H	OH	H	NH-acetyl
acyl	H	OH	H	OH
acyl	H	OH	H	OMe
acyl	H	OH	H	OEt
acyl	H	OH	H	O-cyclopropyl
acyl	H	OH	H	O-acetyl
acyl	H	OH	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt
acyl	H	OH	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH_2
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	H	H
acyl	amino acid	OH	H	NH_2
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	OH
acyl	amino acid	OH	H	OMe
acyl	amino acid	OH	H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	H	O-acetyl
acyl	amino acid	OH	H	SH
acyl	amino acid	OH	H	SMe
acyl	amino acid	OH	H	SEt
acyl	amino acid	OH	H	S-cyclopropyl
acyl	amino acid	OH	H	F
acyl	amino acid	OH	H	Cl
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	H	I
H	acyl	OH	H	H
H	acyl	OH	H	NH_2
H	acyl	OH	H	NH-cyclopropyl
H	acyl	OH	H	NH-methyl
H	acyl	OH	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	acyl	OH	H	NH-acetyl
H	acyl	OH	H	OH
H	acyl	OH	H	OMe
H	acyl	OH	H	OEt
H	acyl	OH	H	O-cyclopropyl
H	acyl	OH	H	O-acetyl
H	acyl	OH	H	SH
H	acyl	OH	H	SMe
H	acyl	OH	H	SEt
H	acyl	OH	H	S-cyclopropyl
H	acyl	OH	H	F
H	acyl	OH	H	Cl
H	acyl	OH	H	Br
H	acyl	OH	H	I
H	amino acid	OH	H	H
H	amino acid	OH	H	NH_2
H	amino acid	OH	H	NH-cyclopropyl
H	amino acid	OH	H	NH-methyl
H	amino acid	OH	H	NH-ethyl
H	amino acid	OH	H	NH-acetyl
H	amino acid	OH	H	OH
H	amino acid	OH	H	OMe
H	amino acid	OH	H	OEt
H	amino acid	OH	H	O-cyclopropyl
H	amino acid	OH	H	O-acetyl
H	amino acid	OH	H	SH
H	amino acid	OH	H	SMe
H	amino acid	OH	H	SEt
H	amino acid	OH	H	S-cyclopropyl
H	amino acid	OH	H	F
H	amino acid	OH	H	Cl
H	amino acid	OH	H	Br
H	amino acid	OH	H	I
amino acid	amino acid	OH	H	H
amino acid	amino acid	OH	H	NH_2
amino acid	amino acid	OH	H	NH-cyclopropyl
amino acid	amino acid	OH	H	NH-methyl
amino acid	amino acid	OH	H	NH-ethyl
amino acid	amino acid	OH	H	NH-acetyl
amino acid	amino acid	OH	H	OH
amino acid	amino acid	OH	H	OMe
amino acid	amino acid	OH	H	OEt
amino acid	amino acid	OH	H	O-cyclopropyl
amino acid	amino acid	OH	H	O-acetyl
amino acid	amino acid	OH	H	SH
amino acid	amino acid	OH	H	SMe
amino acid	amino acid	OH	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	H	S-cyclopropyl
amino acid	amino acid	OH	H	F
amino acid	amino acid	OH	H	Cl
amino acid	amino acid	OH	H	Br
amino acid	amino acid	OH	H	I
amino acid	H	OH	H	H
amino acid	H	OH	H	NH_2
amino acid	H	OH	H	NH-cyclopropyl
amino acid	H	OH	H	NH-methyl
amino acid	H	OH	H	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	H	OH	H	OH
amino acid	H	OH	H	OMe
amino acid	H	OH	H	OEt
amino acid	H	OH	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	H	SH
amino acid	H	OH	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	H	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	H	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	H	I
amino acid	acyl	OH	H	H
amino acid	acyl	OH	H	NH_2
amino acid	acyl	OH	H	NH-cyclopropyl
amino acid	acyl	OH	H	NH-methyl
amino acid	acyl	OH	H	NH-ethyl
amino acid	acyl	OH	H	NH-acetyl
amino acid	acyl	OH	H	OH
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	H	SEt
amino acid	acyl	OH	H	S-cyclopropyl
amino acid	acyl	OH	H	F
amino acid	acyl	OH	H	Cl
amino acid	acyl	OH	H	Br
amino acid	acyl	OH	H	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	H	OH	H
acyl	H	H	OH	NH_2
acyl	H	H	OH	NH-cyclopropyl
acyl	H	H	OH	NH-methyl
acyl	H	H	OH	NH-ethyl
acyl	H	H	OH	NH-acetyl
acyl	H	H	OH	OH
acyl	H	H	OH	OMe
acyl	H	H	OH	OEt
acyl	H	H	OH	O-cyclopropyl
acyl	H	H	OH	O-acetyl
acyl	H	H	OH	SH
acyl	H	H	OH	SMe
acyl	H	H	OH	SEt
acyl	H	H	OH	S-cyclopropyl
acyl	H	H	OH	F
acyl	H	H	OH	Cl
acyl	H	H	OH	Br
acyl	H	H	OH	I
acyl	acyl	H	OH	H
acyl	acyl	H	OH	NH_2
acyl	acyl	H	OH	NH-cyclopropyl
acyl	acyl	H	OH	NH-methyl
acyl	acyl	H	OH	NH-ethyl
acyl	acyl	H	OH	NH-acetyl
acyl	acyl	H	OH	OH
acyl	acyl	H	OH	OMe
acyl	acyl	H	OH	OEt
acyl	acyl	H	OH	O-cyclopropyl
acyl	acyl	H	OH	O-acetyl
acyl	acyl	H	OH	SH
acyl	acyl	H	OH	SMe
acyl	acyl	H	OH	SEt
acyl	acyl	H	OH	S-cyclopropyl
acyl	acyl	H	OH	F
acyl	acyl	H	OH	Cl
acyl	acyl	H	OH	Br
acyl	acyl	H	OH	I
acyl	amino acid	H	OH	H
acyl	amino acid	H	OH	NH_2

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	OH	NH-cyclopropyl
acyl	amino acid	H	OH	NH-methyl
acyl	amino acid	H	OH	NH-ethyl
acyl	amino acid	H	OH	NH-acetyl
acyl	amino acid	H	OH	OH
acyl	amino acid	H	OH	OMe
acyl	amino acid	H	OH	OEt
acyl	amino acid	H	OH	O-cyclopropyl
acyl	amino acid	H	OH	O-acetyl
acyl	amino acid	H	OH	SH
acyl	amino acid	H	OH	SMe
acyl	amino acid	H	OH	SEt
acyl	amino acid	H	OH	S-cyclopropyl
acyl	amino acid	H	OH	F
acyl	amino acid	H	OH	Cl
acyl	amino acid	H	OH	Br
acyl	amino acid	H	OH	I
H	acyl	H	OH	H
H	acyl	H	OH	NH_2
H	acyl	H	OH	NH-cyclopropyl
H	acyl	H	OH	NH-methyl
H	acyl	H	OH	NH-ethyl
H	acyl	H	OH	NH-acetyl
H	acyl	H	OH	OH
H	acyl	H	OH	OMe
H	acyl	H	OH	OEt
H	acyl	H	OH	O-cyclopropyl
H	acyl	H	OH	O-acetyl
H	acyl	H	OH	SH
H	acyl	H	OH	SMe
H	acyl	H	OH	SEt
H	acyl	H	OH	S-cyclopropyl
H	acyl	H	OH	F
H	acyl	H	OH	Cl
H	acyl	H	OH	Br
H	acyl	H	OH	I
H	amino acid	H	OH	H
H	amino acid	H	OH	NH_2
H	amino acid	H	OH	NH-cyclopropyl
H	amino acid	H	OH	NH-methyl
H	amino acid	H	OH	NH-ethyl
H	amino acid	H	OH	NH-acetyl
H	amino acid	H	OH	OH
H	amino acid	H	OH	OMe
H	amino acid	H	OH	OEt
H	amino acid	H	OH	O-cyclopropyl
H	amino acid	H	OH	O-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	OH	SH
H	amino acid	H	OH	SMe
H	amino acid	H	OH	SEt
H	amino acid	H	OH	S-cyclopropyl
H	amino acid	H	OH	F
H	amino acid	H	OH	Cl
H	amino acid	H	OH	Br
H	amino acid	H	OH	I
amino acid	amino acid	H	OH	H
amino acid	amino acid	H	OH	NH_2
amino acid	amino acid	H	OH	NH-cyclopropyl
amino acid	amino acid	H	OH	NH-methyl
amino acid	amino acid	H	OH	NH-ethyl
amino acid	amino acid	H	OH	NH-acetyl
amino acid	amino acid	H	OH	OH
amino acid	amino acid	H	OH	OMe
amino acid	amino acid	H	OH	OEt
amino acid	amino acid	H	OH	O-cyclopropyl
amino acid	amino acid	H	OH	O-acetyl
amino acid	amino acid	H	OH	SH
amino acid	amino acid	H	OH	SMe
amino acid	amino acid	H	OH	SEt
amino acid	amino acid	H	OH	S-cyclopropyl
amino acid	amino acid	H	OH	F
amino acid	amino acid	H	OH	Cl
amino acid	amino acid	H	OH	Br
amino acid	amino acid	H	OH	I
amino acid	H	H	OH	H
amino acid	H	H	OH	NH_2
amino acid	H	H	OH	NH-cyclopropyl
amino acid	H	H	OH	NH-methyl
amino acid	H	H	OH	NH-ethyl
amino acid	H	H	OH	NH-acetyl
amino acid	H	H	OH	OH
amino acid	H	H	OH	OMe
amino acid	H	H	OH	OEt
amino acid	H	H	OH	O-cyclopropyl
amino acid	H	H	OH	O-acetyl
amino acid	H	H	OH	SH
amino acid	H	H	OH	SMe
amino acid	H	H	OH	SEt
amino acid	H	H	OH	S-cyclopropyl
amino acid	H	H	OH	F
amino acid	H	H	OH	Cl
amino acid	H	H	OH	Br
amino acid	H	H	OH	I
amino acid	acyl	H	OH	H

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	OH	NH_2
amino acid	acyl	H	OH	NH-cyclopropyl
amino acid	acyl	H	OH	NH-methyl
amino acid	acyl	H	OH	NH-ethyl
amino acid	acyl	H	OH	NH-acetyl
amino acid	acyl	H	OH	OH
amino acid	acyl	H	OH	OMe
amino acid	acyl	H	OH	OEt
amino acid	acyl	H	OH	O-cyclopropyl
amino acid	acyl	H	OH	O-acetyl
amino acid	acyl	H	OH	SH
amino acid	acyl	H	OH	SMe
amino acid	acyl	H	OH	SEt
amino acid	acyl	H	OH	S-cyclopropyl
amino acid	acyl	H	OH	F
amino acid	acyl	H	OH	Cl
amino acid	acyl	H	OH	Br
amino acid	acyl	H	OH	I
acyl	H	OH	SH	H
acyl	H	OH	SH	NH_2
acyl	H	OH	SH	NH-cyclopropyl
acyl	H	OH	SH	NH-methyl
acyl	H	OH	SH	NH-ethyl
acyl	H	OH	SH	NH-acetyl
acyl	H	OH	SH	OH
acyl	H	OH	SH	OMe
acyl	H	OH	SH	OEt
acyl	H	OH	SH	O-cyclopropyl
acyl	H	OH	SH	O-acetyl
acyl	H	OH	SH	SH
acyl	H	OH	SH	SMe
acyl	H	OH	SH	SEt
acyl	H	OH	SH	S-cyclopropyl
acyl	H	OH	SH	F
acyl	H	OH	SH	Cl
acyl	H	OH	SH	Br
acyl	H	OH	SH	I
acyl	acyl	OH	SH	H
acyl	acyl	OH	SH	NH_2
acyl	acyl	OH	SH	NH-cyclopropyl
acyl	acyl	OH	SH	NH-methyl
acyl	acyl	OH	SH	NH-ethyl
acyl	acyl	OH	SH	NH-acetyl
acyl	acyl	OH	SH	OH
acyl	acyl	OH	SH	OMe
acyl	acyl	OH	SH	OEt
acyl	acyl	OH	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	SH	O-acetyl
acyl	acyl	OH	SH	SH
acyl	acyl	OH	SH	SMe
acyl	acyl	OH	SH	SEt
acyl	acyl	OH	SH	S-cyclopropyl
acyl	acyl	OH	SH	F
acyl	acyl	OH	SH	Cl
acyl	acyl	OH	SH	Br
acyl	acyl	OH	SH	I
acyl	amino acid	OH	SH	H
acyl	amino acid	OH	SH	NH_2
acyl	amino acid	OH	SH	NH-cyclopropyl
acyl	amino acid	OH	SH	NH-methyl
acyl	amino acid	OH	SH	NH-ethyl
acyl	amino acid	OH	SH	NH-acetyl
acyl	amino acid	OH	SH	OH
acyl	amino acid	OH	SH	OMe
acyl	amino acid	OH	SH	OEt
acyl	amino acid	OH	SH	O-cyclopropyl
acyl	amino acid	OH	SH	O-acetyl
acyl	amino acid	OH	SH	SH
acyl	amino acid	OH	SH	SMe
acyl	amino acid	OH	SH	SEt
acyl	amino acid	OH	SH	S-cyclopropyl
acyl	amino acid	OH	SH	F
acyl	amino acid	OH	SH	Cl
acyl	amino acid	OH	SH	Br
acyl	amino acid	OH	SH	I
H	acyl	OH	SH	H
H	acyl	OH	SH	NH_2
H	acyl	OH	SH	NH-cyclopropyl
H	acyl	OH	SH	NH-methyl
H	acyl	OH	SH	NH-ethyl
H	acyl	OH	SH	NH-acetyl
H	acyl	OH	SH	OH
H	acyl	OH	SH	OMe
H	acyl	OH	SH	OEt
H	acyl	OH	SH	O-cyclopropyl
H	acyl	OH	SH	O-acetyl
H	acyl	OH	SH	SH
H	acyl	OH	SH	SMe
H	acyl	OH	SH	SEt
H	acyl	OH	SH	S-cyclopropyl
H	acyl	OH	SH	F
H	acyl	OH	SH	Cl
H	acyl	OH	SH	Br
H	acyl	OH	SH	I

R^2	R^3	X^1	X^2	Y
H	amino acid	OH	SH	H
H	amino acid	OH	SH	NH_2
H	amino acid	OH	SH	NH-cyclopropyl
H	amino acid	OH	SH	NH-methyl
H	amino acid	OH	SH	NH-ethyl
H	amino acid	OH	SH	NH-acetyl
H	amino acid	OH	SH	OH
H	amino acid	OH	SH	OMe
H	amino acid	OH	SH	OEt
H	amino acid	OH	SH	O-cyclopropyl
H	amino acid	OH	SH	O-acetyl
H	amino acid	OH	SH	SH
H	amino acid	OH	SH	SMe
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
H	amino acid	OH	SH	Cl
H	amino acid	OH	SH	Br
H	amino acid	OH	SH	I
amino acid	amino acid	OH	SH	H
amino acid	amino acid	OH	SH	NH_2
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	OH	SH	OH
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	OH	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	H	OH	SH	H
amino acid	H	OH	SH	NH_2
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	H	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	H	OH	SH	OH
amino acid	H	OH	SH	OMe
amino acid	H	OH	SH	OEt

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	H	OH	SH	SH
amino acid	H	OH	SH	SMe
amino acid	H	OH	SH	SEt
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH_2
amino acid	acyl	OH	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	OH
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyl	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	OH	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	OH	SH	Br
amino acid	acyl	OH	SH	I
acyl	H	SH	OH	H
acyl	H	SH	OH	NH_2
acyl	H	SH	OH	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	OH	OH
acyl	H	SH	OH	OMe
acyl	H	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	H	SH	OH	O-acetyl
acyl	H	SH	OH	SH
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	H	SH	OH	Cl
acyl	H	SH	OH	Br

R^2	R^3	X^1	X^2	Y
acyl	H	SH	OH	I
acyl	acyl	SH	OH	H
acyl	acyl	SH	OH	NH_2
acyl	acyl	SH	OH	NH-cyclopropyl
acyl	acyl	SH	OH	NH-methyl
acyl	acyl	SH	OH	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	OH
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	OH	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	OH	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	OH	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	OH	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	OH	I
acyl	amino acid	SH	OH	H
acyl	amino acid	SH	OH	NH_2
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	OH	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl
acyl	amino acid	SH	OH	Br
acyl	amino acid	SH	OH	I
H	acyl	SH	OH	H
H	acyl	SH	OH	NH_2
H	acyl	SH	OH	NH-cyclopropyl
H	acyl	SH	OH	NH-methyl
H	acyl	SH	OH	NH-ethyl
H	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	OH
H	acyl	SH	OH	OMe

R^2	R^3	X^1	X^2	Y
H	acyl	SH	OH	OEt
H	acyl	SH	OH	O-cyclopropyl
H	acyl	SH	OH	O-acetyl
H	acyl	SH	OH	SH
H	acyl	SH	OH	SMe
H	acyl	SH	OH	SEt
H	acyl	SH	OH	S-cyclopropyl
H	acyl	SH	OH	F
H	acyl	SH	OH	Cl
H	acyl	SH	OH	Br
H	acyl	SH	OH	I
H	amino acid	SH	OH	H
H	amino acid	SH	OH	NH_2
H	amino acid	SH	OH	NH-cyclopropyl
H	amino acid	SH	OH	NH-methyl
H	amino acid	SH	OH	NH-ethyl
H	amino acid	SH	OH	NH-acetyl
H	amino acid	SH	OH	OH
H	amino acid	SH	OH	OMe
H	amino acid	SH	OH	OEt
H	amino acid	SH	OH	O-cyclopropyl
H	amino acid	SH	OH	O-acetyl
H	amino acid	SH	OH	SH
H	amino acid	SH	OH	SMe
H	amino acid	SH	OH	SEt
H	amino acid	SH	OH	S-cyclopropyl
H	amino acid	SH	OH	F
H	amino acid	SH	OH	Cl
H	amino acid	SH	OH	Br
H	amino acid	SH	OH	I
amino acid	amino acid	SH	OH	H
amino acid	amino acid	SH	OH	NH_2
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	OH
amino acid	amino acid	SH	OH	OMe
amino acid	amino acid	SH	OH	OEt
amino acid	amino acid	SH	OH	O-cyclopropyl
amino acid	amino acid	SH	OH	O-acetyl
amino acid	amino acid	SH	OH	SH
amino acid	amino acid	SH	OH	SMe
amino acid	amino acid	SH	OH	SEt
amino acid	amino acid	SH	OH	S-cyclopropyl
amino acid	amino acid	SH	OH	F
amino acid	amino acid	SH	OH	Cl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	OH	Br
amino acid	amino acid	SH	OH	I
amino acid	H	SH	OH	H
amino acid	H	SH	OH	NH_2
amino acid	H	SH	OH	NH-cyclopropyl
amino acid	H	SH	OH	NH-methyl
amino acid	H	SH	OH	NH-ethyl
amino acid	H	SH	OH	NH-acetyl
amino acid	H	SH	OH	OH
amino acid	H	SH	OH	OMe
amino acid	H	SH	OH	OEt
amino acid	H	SH	OH	O-cyclopropyl
amino acid	H	SH	OH	O-acetyl
amino acid	H	SH	OH	SH
amino acid	H	SH	OH	SMe
amino acid	H	SH	OH	SEt
amino acid	H	SH	OH	S-cyclopropyl
amino acid	H	SH	OH	F
amino acid	H	SH	OH	Cl
amino acid	H	SH	OH	Br
amino acid	H	SH	OH	I
amino acid	acyl	SH	OH	H
amino acid	acyl	SH	OH	NH_2
amino acid	acyl	SH	OH	NH-cyclopropyl
amino acid	acyl	SH	OH	NH-methyl
amino acid	acyl	SH	OH	NH-ethyl
amino acid	acyl	SH	OH	NH-acetyl
amino acid	acyl	SH	OH	OH
amino acid	acyl	SH	OH	OMe
amino acid	acyl	SH	OH	OEt
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	S-cyclopropyl
amino acid	acyl	SH	OH	F
amino acid	acyl	SH	OH	Cl
amino acid	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	H	Br	H	H
acyl	H	Br	H	NH_2
acyl	H	Br	H	NH-cyclopropyl
acyl	H	Br	H	NH-methyl
acyl	H	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl
acyl	H	Br	H	OH

R^2	R^3	X^1	X^2	Y
acyl	H	Br	H	OMe
acyl	H	Br	H	OEt
acyl	H	Br	H	O-cyclopropyl
acyl	H	Br	H	O-acetyl
acyl	H	Br	H	SH
acyl	H	Br	H	SMe
acyl	H	Br	H	SEt
acyl	H	Br	H	S-cyclopropyl
acyl	H	Br	H	F
acyl	H	Br	H	Cl
acyl	H	Br	H	Br
acyl	H	Br	H	I
acyl	acyl	Br	H	H
acyl	acyl	Br	H	NH_2
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	H	O-cyclopropyl
acyl	acyl	Br	H	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	H	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	H	S-cyclopropyl
acyl	acyl	Br	H	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	amino acid	Br	H	H
acyl	amino acid	Br	H	NH_2
acyl	amino acid	Br	H	NH-cyclopropyl
acyl	amino acid	Br	H	NH-methyl
acyl	amino acid	Br	H	NH-ethyl
acyl	amino acid	Br	H	NH-acetyl
acyl	amino acid	Br	H	OH
acyl	amino acid	Br	H	OMe
acyl	amino acid	Br	H	OEt
acyl	amino acid	Br	H	O-cyclopropyl
acyl	amino acid	Br	H	O-acetyl
acyl	amino acid	Br	H	SH
acyl	amino acid	Br	H	SMe
acyl	amino acid	Br	H	SEt
acyl	amino acid	Br	H	S-cyclopropyl
acyl	amino acid	Br	H	F

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	H	Cl
acyl	amino acid	Br	H	Br
acyl	amino acid	Br	H	I
H	acyl	Br	H	H
H	acyl	Br	H	NH_2
H	acyl	Br	H	NH-cyclopropyl
H	acyl	Br	H	NH-methyl
H	acyl	Br	H	NH-ethyl
H	acyl	Br	H	NH-acetyl
H	acyl	Br	H	OH
H	acyl	Br	H	OMe
H	acyl	Br	H	OEt
H	acyl	Br	H	O-cyclopropyl
H	acyl	Br	H	O-acetyl
H	acyl	Br	H	SH
H	acyl	Br	H	SMe
H	acyl	Br	H	SEt
H	acyl	Br	H	S-cyclopropyl
H	acyl	Br	H	F
H	acyl	Br	H	Cl
H	acyl	Br	H	Br
H	acyl	Br	H	I
H	amino acid	Br	H	H
H	amino acid	Br	H	NH_2
H	amino acid	Br	H	NH-cyclopropyl
H	amino acid	Br	H	NH-methyl
H	amino acid	Br	H	NH-ethyl
H	amino acid	Br	H	NH-acetyl
H	amino acid	Br	H	OH
H	amino acid	Br	H	OMe
H	amino acid	Br	H	OEt
H	amino acid	Br	H	O-cyclopropyl
H	amino acid	Br	H	O-acetyl
H	amino acid	Br	H	SH
H	amino acid	Br	H	SMe
H	amino acid	Br	H	SEt
H	amino acid	Br	H	S-cyclopropyl
H	amino acid	Br	H	F
H	amino acid	Br	H	Cl
H	amino acid	Br	H	Br
H	amino acid	Br	H	I
amino acid	amino acid	Br	H	H
amino acid	amino acid	Br	H	NH_2
amino acid	amino acid	Br	H	NH-cyclopropyl
amino acid	amino acid	Br	H	NH-methyl
amino acid	amino acid	Br	H	NH-ethyl
amino acid	amino acid	Br	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	H	OH
amino acid	amino acid	Br	H	OMe
amino acid	amino acid	Br	H	OEt
amino acid	amino acid	Br	H	O-cyclopropyl
amino acid	amino acid	Br	H	O-acetyl
amino acid	amino acid	Br	H	SH
amino acid	amino acid	Br	H	SMe
amino acid	amino acid	Br	H	SEt
amino acid	amino acid	Br	H	S-cyclopropyl
amino acid	amino acid	Br	H	F
amino acid	amino acid	Br	H	Cl
amino acid	amino acid	Br	H	Br
amino acid	amino acid	Br	H	I
amino acid	H	Br	H	H
amino acid	H	Br	H	NH_2
amino acid	H	Br	H	NH-cyclopropyl
amino acid	H	Br	H	NH-methyl
amino acid	H	Br	H	NH-ethyl
amino acid	H	Br	H	NH-acetyl
amino acid	H	Br	H	OH
amino acid	H	Br	H	OMe
amino acid	H	Br	H	OEt
amino acid	H	Br	H	O-cyclopropyl
amino acid	H	Br	H	O-acetyl
amino acid	H	Br	H	SH
amino acid	H	Br	H	SMe
amino acid	H	Br	H	SEt
amino acid	H	Br	H	S-cyclopropyl
amino acid	H	Br	H	F
amino acid	H	Br	H	Cl
amino acid	H	Br	H	Br
amino acid	H	Br	H	I
amino acid	acyl	Br	H	H
amino acid	acyl	Br	H	NH_2
amino acid	acyl	Br	H	NH-cyclopropyl
amino acid	acyl	Br	H	NH-methyl
amino acid	acyl	Br	H	NH-ethyl
amino acid	acyl	Br	H	NH-acetyl
amino acid	acyl	Br	H	OH
amino acid	acyl	Br	H	OMe
amino acid	acyl	Br	H	OEt
amino acid	acyl	Br	H	O-cyclopropyl
amino acid	acyl	Br	H	O-acetyl
amino acid	acyl	Br	H	SH
amino acid	acyl	Br	H	SMe
amino acid	acyl	Br	H	SEt
amino acid	acyl	Br	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	H	F
amino acid	acyl	Br	H	Cl
amino acid	acyl	Br	H	Br
amino acid	acyl	Br	H	I
acyl	H	Br	Br	H
acyl	H	Br	Br	NH_2
acyl	H	Br	Br	NH-cyclopropyl
acyl	H	Br	Br	NH-methyl
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	H	Br	Br	I
acyl	acyl	Br	Br	H
acyl	acyl	Br	Br	NH_2
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl
acyl	acyl	Br	Br	NH-ethyl
acyl	acyl	Br	Br	NH-acetyl
acyl	acyl	Br	Br	OH
acyl	acyl	Br	Br	OMe
acyl	acyl	Br	Br	OEt
acyl	acyl	Br	Br	O-cyclopropyl
acyl	acyl	Br	Br	O-acetyl
acyl	acyl	Br	Br	SH
acyl	acyl	Br	Br	SMe
acyl	acyl	Br	Br	SEt
acyl	acyl	Br	Br	S-cyclopropyl
acyl	acyl	Br	Br	F
acyl	acyl	Br	Br	Cl
acyl	acyl	Br	Br	Br
acyl	acyl	Br	Br	I
acyl	amino acid	Br	Br	H
acyl	amino acid	Br	Br	NH_2
acyl	amino acid	Br	Br	NH-cyclopropyl
acyl	amino acid	Br	Br	NH-methyl
acyl	amino acid	Br	Br	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	Br	NH-acetyl
acyl	amino acid	Br	Br	OH
acyl	amino acid	Br	Br	OMe
acyl	amino acid	Br	Br	OEt
acyl	amino acid	Br	Br	O-cyclopropyl
acyl	amino acid	Br	Br	O-acetyl
acyl	amino acid	Br	Br	SH
acyl	amino acid	Br	Br	SMe
acyl	amino acid	Br	Br	SEt
acyl	amino acid	Br	Br	S-cyclopropyl
acyl	amino acid	Br	Br	F
acyl	amino acid	Br	Br	Cl
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	H
H	acyl	Br	Br	NH_2
H	acyl	Br	Br	NH-cyclopropyl
H	acyl	Br	Br	NH-methyl
H	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
H	acyl	Br	Br	OH
H	acyl	Br	Br	OMe
H	acyl	Br	Br	OEt
H	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
H	acyl	Br	Br	SH
H	acyl	Br	Br	SMe
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
H	amino acid	Br	Br	H
H	amino acid	Br	Br	NH_2
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
H	amino acid	Br	Br	NH-ethyl
H	amino acid	Br	Br	NH-acetyl
H	amino acid	Br	Br	OH
H	amino acid	Br	Br	OMe
H	amino acid	Br	Br	OEt
H	amino acid	Br	Br	O-cyclopropyl
H	amino acid	Br	Br	O-acetyl
H	amino acid	Br	Br	SH
H	amino acid	Br	Br	SMe
H	amino acid	Br	Br	SEt

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	Br	S-cyclopropyl
H	amino acid	Br	Br	F
H	amino acid	Br	Br	Cl
H	amino acid	Br	Br	Br
H	amino acid	Br	Br	I
amino acid	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	NH_2
amino acid	amino acid	Br	Br	NH-cyclopropyl
amino acid	amino acid	Br	Br	NH-methyl
amino acid	amino acid	Br	Br	NH-ethyl
amino acid	amino acid	Br	Br	NH-acetyl
amino acid	amino acid	Br	Br	OH
amino acid	amino acid	Br	Br	OMe
amino acid	amino acid	Br	Br	OEt
amino acid	amino acid	Br	Br	O-cyclopropyl
amino acid	amino acid	Br	Br	O-acetyl
amino acid	amino acid	Br	Br	SH
amino acid	amino acid	Br	Br	SMe
amino acid	amino acid	Br	Br	SEt
amino acid	amino acid	Br	Br	S-cyclopropyl
amino acid	amino acid	Br	Br	F
amino acid	amino acid	Br	Br	Cl
amino acid	amino acid	Br	Br	Br
amino acid	amino acid	Br	Br	I
amino acid	H	Br	Br	H
amino acid	H	Br	Br	NH_2
amino acid	H	Br	Br	NH-cyclopropyl
amino acid	H	Br	Br	NH-methyl
amino acid	H	Br	Br	NH-ethyl
amino acid	H	Br	Br	NH-acetyl
amino acid	H	Br	Br	OH
amino acid	H	Br	Br	OMe
amino acid	H	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	H	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	H	Br	Br	SEt
amino acid	H	Br	Br	S-cyclopropyl
amino acid	H	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	H	Br	Br	Br
amino acid	H	Br	Br	I
amino acid	acyl	Br	Br	H
amino acid	acyl	Br	Br	NH_2
amino acid	acyl	Br	Br	NH-cyclopropyl
amino acid	acyl	Br	Br	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Br	NH-ethyl
amino acid	acyl	Br	Br	NH-acetyl
amino acid	acyl	Br	Br	OH
amino acid	acyl	Br	Br	OMe
amino acid	acyl	Br	Br	OEt
amino acid	acyl	Br	Br	O-cyclopropyl
amino acid	acyl	Br	Br	O-acetyl
amino acid	acyl	Br	Br	SH
amino acid	acyl	Br	Br	SMe
amino acid	acyl	Br	Br	SEt
amino acid	acyl	Br	Br	S-cyclopropyl
amino acid	acyl	Br	Br	F
amino acid	acyl	Br	Br	Cl
amino acid	acyl	Br	Br	Br
amino acid	acyl	Br	Br	I
acyl	H	H	Br	H
acyl	H	H	Br	NH_2
acyl	H	H	Br	NH-cyclopropyl
acyl	H	H	Br	NH-methyl
acyl	H	H	Br	NH-ethyl
acyl	H	H	Br	NH-acetyl
acyl	H	H	Br	OH
acyl	H	H	Br	OMe
acyl	H	H	Br	OEt
acyl	H	H	Br	O-cyclopropyl
acyl	H	H	Br	O-acetyl
acyl	H	H	Br	SH
acyl	H	H	Br	SMe
acyl	H	H	Br	SEt
acyl	H	H	Br	S-cyclopropyl
acyl	H	H	Br	F
acyl	H	H	Br	Cl
acyl	H	H	Br	Br
acyl	H	H	Br	I
acyl	acyl	H	Br	H
acyl	acyl	H	Br	NH_2
acyl	acyl	H	Br	NH-cyclopropyl
acyl	acyl	H	Br	NH-methyl
acyl	acyl	H	Br	NH-ethyl
acyl	acyl	H	Br	NH-acetyl
acyl	acyl	H	Br	OH
acyl	acyl	H	Br	OMe
acyl	acyl	H	Br	OEt
acyl	acyl	H	Br	O-cyclopropyl
acyl	acyl	H	Br	O-acetyl
acyl	acyl	H	Br	SH
acyl	acyl	H	Br	SMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	Br	SEt
acyl	acyl	H	Br	S-cyclopropyl
acyl	acyl	H	Br	F
acyl	acyl	H	Br	Cl
acyl	acyl	H	Br	Br
acyl	acyl	H	Br	I
acyl	amino acid	H	Br	H
acyl	amino acid	H	Br	NH_2
acyl	amino acid	H	Br	NH-cyclopropyl
acyl	amino acid	H	Br	NH-methyl
acyl	amino acid	H	Br	NH-ethyl
acyl	amino acid	H	Br	NH-acetyl
acyl	amino acid	H	Br	OH
acyl	amino acid	H	Br	OMe
acyl	amino acid	H	Br	OEt
acyl	amino acid	H	Br	O-cyclopropyl
acyl	amino acid	H	Br	O-acetyl
acyl	amino acid	H	Br	SH
acyl	amino acid	H	Br	SMe
acyl	amino acid	H	Br	SEt
acyl	amino acid	H	Br	S-cyclopropyl
acyl	amino acid	H	Br	F
acyl	amino acid	H	Br	Cl
acyl	amino acid	H	Br	Br
acyl	amino acid	H	Br	I
H	acyl	H	Br	H
H	acyl	H	Br	NH_2
H	acyl	H	Br	NH-cyclopropyl
H	acyl	H	Br	NH-methyl
H	acyl	H	Br	NH-ethyl
H	acyl	H	Br	NH-acetyl
H	acyl	H	Br	OH
H	acyl	H	Br	OMe
H	acyl	H	Br	OEt
H	acyl	H	Br	O-cyclopropyl
H	acyl	H	Br	O-acetyl
H	acyl	H	Br	SH
H	acyl	H	Br	SMe
H	acyl	H	Br	SEt
H	acyl	H	Br	S-cyclopropyl
H	acyl	H	Br	F
H	acyl	H	Br	Cl
H	acyl	H	Br	Br
H	acyl	H	Br	I
H	amino acid	H	Br	H
H	amino acid	H	Br	NH_2
H	amino acid	H	Br	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Br	NH-methyl
H	amino acid	H	Br	NH-ethyl
H	amino acid	H	Br	NH-acetyl
H	amino acid	H	Br	OH
H	amino acid	H	Br	OMe
H	amino acid	H	Br	OEt
H	amino acid	H	Br	O-cyclopropyl
H	amino acid	H	Br	O-acetyl
H	amino acid	H	Br	SH
H	amino acid	H	Br	SMe
H	amino acid	H	Br	SEt
H	amino acid	H	Br	S-cyclopropyl
H	amino acid	H	Br	F
H	amino acid	H	Br	Cl
H	amino acid	H	Br	Br
H	amino acid	H	Br	I
amino acid	amino acid	H	Br	H
amino acid	amino acid	H	Br	NH_2
amino acid	amino acid	H	Br	NH-cyclopropyl
amino acid	amino acid	H	Br	NH-methyl
amino acid	amino acid	H	Br	NH-ethyl
amino acid	amino acid	H	Br	NH-acetyl
amino acid	amino acid	H	Br	OH
amino acid	amino acid	H	Br	OMe
amino acid	amino acid	H	Br	OEt
amino acid	amino acid	H	Br	O-cyclopropyl
amino acid	amino acid	H	Br	O-acetyl
amino acid	amino acid	H	Br	SH
amino acid	amino acid	H	Br	SMe
amino acid	amino acid	H	Br	SEt
amino acid	amino acid	H	Br	S-cyclopropyl
amino acid	amino acid	H	Br	F
amino acid	amino acid	H	Br	Cl
amino acid	amino acid	H	Br	Br
amino acid	amino acid	H	Br	I
amino acid	H	H	Br	H
amino acid	H	H	Br	NH_2
amino acid	H	H	Br	NH-cyclopropyl
amino acid	H	H	Br	NH-methyl
amino acid	H	H	Br	NH-ethyl
amino acid	H	H	Br	NH-acetyl
amino acid	H	H	Br	OH
amino acid	H	H	Br	OMe
amino acid	H	H	Br	OEt
amino acid	H	H	Br	O-cyclopropyl
amino acid	H	H	Br	O-acetyl
amino acid	H	H	Br	SH

R^2	R^3	X^1	X^2	Y
amino acid	H	H	Br	SMe
amino acid	H	H	Br	SEt
amino acid	H	H	Br	S-cyclopropyl
amino acid	H	H	Br	F
amino acid	H	H	Br	Cl
amino acid	H	H	Br	Br
amino acid	H	H	Br	I
amino acid	acyl	H	Br	H
amino acid	acyl	H	Br	NH_2
amino acid	acyl	H	Br	NH-cyclopropyl
amino acid	acyl	H	Br	NH-methyl
amino acid	acyl	H	Br	NH-ethyl
amino acid	acyl	H	Br	NH-acetyl
amino acid	acyl	H	Br	OH
amino acid	acyl	H	Br	OMe
amino acid	acyl	H	Br	OEt
amino acid	acyl	H	Br	O-cyclopropyl
amino acid	acyl	H	Br	O-acetyl
amino acid	acyl	H	Br	SH
amino acid	acyl	H	Br	SMe
amino acid	acyl	H	Br	SEt
amino acid	acyl	H	Br	S-cyclopropyl
amino acid	acyl	H	Br	F
amino acid	acyl	H	Br	Cl
amino acid	acyl	H	Br	Br
amino acid	acyl	H	Br	I
acyl	H	Cl	Br	H
acyl	H	Cl	Br	NH_2
acyl	H	Cl	Br	NH-cyclopropyl
acyl	H	Cl	Br	NH-methyl
acyl	H	Cl	Br	NH-ethyl
acyl	H	Cl	Br	NH-acetyl
acyl	H	Cl	Br	OH
acyl	H	Cl	Br	OMe
acyl	H	Cl	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH
acyl	H	Cl	Br	SMe
acyl	H	Cl	Br	SEt
acyl	H	Cl	Br	S-cyclopropyl
acyl	H	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	H
acyl	acyl	Cl	Br	NH_2

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	Cl	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cl	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	amino acid	Cl	Br	H
acyl	amino acid	Cl	Br	NH_2
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	OH
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	Cl	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	Cl	Br	I
H	acyl	Cl	Br	H
H	acyl	Cl	Br	NH_2
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
H	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	Cl	Br	O-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
H	amino acid	Cl	Br	H
H	amino acid	Cl	Br	NH_2
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
H	amino acid	Cl	Br	OMe
H	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
H	amino acid	Cl	Br	O-acetyl
H	amino acid	Cl	Br	SH
H	amino acid	Cl	Br	SMe
H	amino acid	Cl	Br	SEt
H	amino acid	Cl	Br	S-cyclopropyl
H	amino acid	Cl	Br	F
H	amino acid	Cl	Br	Cl
H	amino acid	Cl	Br	Br
H	amino acid	Cl	Br	I
amino acid	amino acid	Cl	Br	H
amino acid	amino acid	Cl	Br	NH_2
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	Cl	Br	NH-acetyl
amino acid	amino acid	Cl	Br	OH
amino acid	amino acid	Cl	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
amino acid	amino acid	Cl	Br	O-acetyl
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	I
amino acid	H	Cl	Br	H

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	Br	NH_2
amino acid	H	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	H	Cl	Br	OH
amino acid	H	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	H	Cl	Br	SEt
amino acid	H	Cl	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	Cl	Br	Br
amino acid	H	Cl	Br	I
amino acid	acyl	Cl	Br	H
amino acid	acyl	Cl	Br	NH_2
amino acid	acyl	Cl	Br	NH-cyclopropyl
amino acid	acyl	Cl	Br	NH-methyl
amino acid	acyl	Cl	Br	NH-ethyl
amino acid	acyl	Cl	Br	NH-acetyl
amino acid	acyl	Cl	Br	OH
amino acid	acyl	Cl	Br	OMe
amino acid	acyl	Cl	Br	OEt
amino acid	acyl	Cl	Br	O-cyclopropyl
amino acid	acyl	Cl	Br	O-acetyl
amino acid	acyl	Cl	Br	SH
amino acid	acyl	Cl	Br	SMe
amino acid	acyl	Cl	Br	SEt
amino acid	acyl	Cl	Br	S-cyclopropyl
amino acid	acyl	Cl	Br	F
amino acid	acyl	Cl	Br	Cl
amino acid	acyl	Cl	Br	Br
amino acid	acyl	Cl	Br	I
acyl	H	Br	Cl	H
acyl	H	Br	Cl	NH_2
acyl	H	Br	Cl	NH-cyclopropyl
acyl	H	Br	Cl	NH-methyl
acyl	H	Br	Cl	NH-ethyl
acyl	H	Br	Cl	NH-acetyl
acyl	H	Br	Cl	OH
acyl	H	Br	Cl	OMe
acyl	H	Br	Cl	OEt
acyl	H	Br	Cl	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	Br	Cl	O-acetyl
acyl	H	Br	Cl	SH
acyl	H	Br	Cl	SMe
acyl	H	Br	Cl	SEt
acyl	H	Br	Cl	S-cyclopropyl
acyl	H	Br	Cl	F
acyl	H	Br	Cl	Cl
acyl	H	Br	Cl	Br
acyl	H	Br	Cl	I
acyl	acyl	Br	Cl	H
acyl	acyl	Br	Cl	NH_2
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	Cl	NH-ethyl
acyl	acyl	Br	Cl	NH-acetyl
acyl	acyl	Br	Cl	OH
acyl	acyl	Br	Cl	OMe
acyl	acyl	Br	Cl	OEt
acyl	acyl	Br	Cl	O-cyclopropyl
acyl	acyl	Br	Cl	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	Cl	I
acyl	amino acid	Br	Cl	H
acyl	amino acid	Br	Cl	NH_2
acyl	amino acid	Br	Cl	NH-cyclopropyl
acyl	amino acid	Br	Cl	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	Cl	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	Cl	F
acyl	amino acid	Br	Cl	Cl
acyl	amino acid	Br	Cl	Br
acyl	amino acid	Br	Cl	I

R^2	R^3	X^1	X^2	Y
H	acyl	Br	Cl	H
H	acyl	Br	Cl	NH_2
H	acyl	Br	Cl	NH-cyclopropyl
H	acyl	Br	Cl	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	Cl	NH-acetyl
H	acyl	Br	Cl	OH
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH
H	acyl	Br	Cl	SMe
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
H	acyl	Br	Cl	I
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH_2
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
H	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
H	amino acid	Br	Cl	I
amino acid	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH_2
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br	Cl	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe
amino acid	amino acid	Br	Cl	OEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	Cl	O-acetyl
amino acid	amino acid	Br	Cl	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	I
amino acid	H	Br	Cl	H
amino acid	H	Br	Cl	NH_2
amino acid	H	Br	Cl	NH-cyclopropyl
amino acid	H	Br	Cl	NH-methyl
amino acid	H	Br	Cl	NH-ethyl
amino acid	H	Br	Cl	NH-acetyl
amino acid	H	Br	Cl	OH
amino acid	H	Br	Cl	OMe
amino acid	H	Br	Cl	OEt
amino acid	H	Br	Cl	O-cyclopropyl
amino acid	H	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	H	Br	Cl	SEt
amino acid	H	Br	Cl	S-cyclopropyl
amino acid	H	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	H	Br	Cl	I
amino acid	acyl	Br	Cl	H
amino acid	acyl	Br	Cl	NH_2
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	Cl	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH
amino acid	acyl	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	F
amino acid	acyl	Br	Cl	Cl
amino acid	acyl	Br	Cl	Br

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Cl	I
acyl	H	H	Cl	H
acyl	H	H	Cl	NH_2
acyl	H	H	Cl	NH-cyclopropyl
acyl	H	H	Cl	NH-methyl
acyl	H	H	Cl	NH-ethyl
acyl	H	H	Cl	NH-acetyl
acyl	H	H	Cl	OH
acyl	H	H	Cl	OMe
acyl	H	H	Cl	OEt
acyl	H	H	Cl	O-cyclopropyl
acyl	H	H	Cl	O-acetyl
acyl	H	H	Cl	SH
acyl	H	H	Cl	SMe
acyl	H	H	Cl	SEt
acyl	H	H	Cl	S-cyclopropyl
acyl	H	H	Cl	F
acyl	H	H	Cl	Cl
acyl	H	H	Cl	Br
acyl	H	H	Cl	I
acyl	acyl	H	Cl	H
acyl	acyl	H	Cl	NH_2
acyl	acyl	H	Cl	NH-cyclopropyl
acyl	acyl	H	Cl	NH-methyl
acyl	acyl	H	Cl	NH-ethyl
acyl	acyl	H	Cl	NH-acetyl
acyl	acyl	H	Cl	OH
acyl	acyl	H	Cl	OMe
acyl	acyl	H	Cl	OEt
acyl	acyl	H	Cl	O-cyclopropyl
acyl	acyl	H	Cl	O-acetyl
acyl	acyl	H	Cl	SH
acyl	acyl	H	Cl	SMe
acyl	acyl	H	Cl	SEt
acyl	acyl	H	Cl	S-cyclopropyl
acyl	acyl	H	Cl	F
acyl	acyl	H	Cl	Cl
acyl	acyl	H	Cl	Br
acyl	acyl	H	Cl	I
acyl	amino acid	H	Cl	H
acyl	amino acid	H	Cl	NH_2
acyl	amino acid	H	Cl	NH-cyclopropyl
acyl	amino acid	H	Cl	NH-methyl
acyl	amino acid	H	Cl	NH-ethyl
acyl	amino acid	H	Cl	NH-acetyl
acyl	amino acid	H	Cl	OH
acyl	amino acid	H	Cl	OMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	Cl	OEt
acyl	amino acid	H	Cl	O-cyclopropyl
acyl	amino acid	H	Cl	O-acetyl
acyl	amino acid	H	Cl	SH
acyl	amino acid	H	Cl	SMe
acyl	amino acid	H	Cl	SEt
acyl	amino acid	H	Cl	S-cyclopropyl
acyl	amino acid	H	Cl	F
acyl	amino acid	H	Cl	Cl
acyl	amino acid	H	Cl	Br
acyl	amino acid	H	Cl	I
H	acyl	H	Cl	H
H	acyl	H	Cl	NH_2
H	acyl	H	Cl	NH-cyclopropyl
H	acyl	H	Cl	NH-methyl
H	acyl	H	Cl	NH-ethyl
H	acyl	H	Cl	NH-acetyl
H	acyl	H	Cl	OH
H	acyl	H	Cl	OMe
H	acyl	H	Cl	OEt
H	acyl	H	Cl	O-cyclopropyl
H	acyl	H	Cl	O-acetyl
H	acyl	H	Cl	SH
H	acyl	H	Cl	SMe
H	acyl	H	Cl	SEt
H	acyl	H	Cl	S-cyclopropyl
H	acyl	H	Cl	F
H	acyl	H	Cl	Cl
H	acyl	H	Cl	Br
H	acyl	H	Cl	I
H	amino acid	H	Cl	H
H	amino acid	H	Cl	NH_2
H	amino acid	H	Cl	NH-cyclopropyl
H	amino acid	H	Cl	NH-methyl
H	amino acid	H	Cl	NH-ethyl
H	amino acid	H	Cl	NH-acetyl
H	amino acid	H	Cl	OH
H	amino acid	H	Cl	OMe
H	amino acid	H	Cl	OEt
H	amino acid	H	Cl	O-cyclopropyl
H	amino acid	H	Cl	O-acetyl
H	amino acid	H	Cl	SH
H	amino acid	H	Cl	SMe
H	amino acid	H	Cl	SEt
H	amino acid	H	Cl	S-cyclopropyl
H	amino acid	H	Cl	F
H	amino acid	H	Cl	Cl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Cl	Br
H	amino acid	H	Cl	I
amino acid	amino acid	H	Cl	H
amino acid	amino acid	H	Cl	NH_2
amino acid	amino acid	H	Cl	NH-cyclopropyl
amino acid	amino acid	H	Cl	NH-methyl
amino acid	amino acid	H	Cl	NH-ethyl
amino acid	amino acid	H	Cl	NH-acetyl
amino acid	amino acid	H	Cl	OH
amino acid	amino acid	H	Cl	OMe
amino acid	amino acid	H	Cl	OEt
amino acid	amino acid	H	Cl	O-cyclopropyl
amino acid	amino acid	H	Cl	O-acetyl
amino acid	amino acid	H	Cl	SH
amino acid	amino acid	H	Cl	SMe
amino acid	amino acid	H	Cl	SEt
amino acid	amino acid	H	Cl	S-cyclopropyl
amino acid	amino acid	H	Cl	F
amino acid	amino acid	H	Cl	Cl
amino acid	amino acid	H	Cl	Br
amino acid	amino acid	H	Cl	I
amino acid	H	H	Cl	H
amino acid	H	H	Cl	NH_2
amino acid	H	H	Cl	NH-cyclopropyl
amino acid	H	H	Cl	NH-methyl
amino acid	H	H	Cl	NH-ethyl
amino acid	H	H	Cl	NH-acetyl
amino acid	H	H	Cl	OH
amino acid	H	H	Cl	OMe
amino acid	H	H	Cl	OEt
amino acid	H	H	Cl	O-cyclopropyl
amino acid	H	H	Cl	O-acetyl
amino acid	H	H	Cl	SH
amino acid	H	H	Cl	SMe
amino acid	H	H	Cl	SEt
amino acid	H	H	Cl	S-cyclopropyl
amino acid	H	H	Cl	F
amino acid	H	H	Cl	Cl
amino acid	H	H	Cl	Br
amino acid	H	H	Cl	I
amino acid	acyl	H	Cl	H
amino acid	acyl	H	Cl	NH_2
amino acid	acyl	H	Cl	NH-cyclopropyl
amino acid	acyl	H	Cl	NH-methyl
amino acid	acyl	H	Cl	NH-ethyl
amino acid	acyl	H	Cl	NH-acetyl
amino acid	acyl	H	Cl	OH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	Cl	OMe
amino acid	acyl	H	Cl	OEt
amino acid	acyl	H	Cl	O-cyclopropyl
amino acid	acyl	H	Cl	O-acetyl
amino acid	acyl	H	Cl	SH
amino acid	acyl	H	Cl	SMe
amino acid	acyl	H	Cl	SEt
amino acid	acyl	H	Cl	S-cyclopropyl
amino acid	acyl	H	Cl	F
amino acid	acyl	H	Cl	Cl
amino acid	acyl	H	Cl	Br
amino acid	acyl	H	Cl	I
acyl	H	Cl	H	H
acyl	H	Cl	H	NH_2
acyl	H	Cl	H	NH-cyclopropyl
acyl	H	Cl	H	NH-methyl
acyl	H	Cl	H	NH-ethyl
acyl	H	Cl	H	NH-acetyl
acyl	H	Cl	H	OH
acyl	H	Cl	H	OMe
acyl	H	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	H	Cl	H	O-acetyl
acyl	H	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	Cl	H	SEt
acyl	H	Cl	H	S-cyclopropyl
acyl	H	Cl	H	F
acyl	H	Cl	H	Cl
acyl	H	Cl	H	Br
acyl	H	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH_2
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	amino acid	Cl	H	H
acyl	amino acid	Cl	H	NH_2
acyl	amino acid	Cl	H	NH-cyclopropyl
acyl	amino acid	Cl	H	NH-methyl
acyl	amino acid	Cl	H	NH-ethyl
acyl	amino acid	Cl	H	NH-acetyl
acyl	amino acid	Cl	H	OH
acyl	amino acid	Cl	H	OMe
acyl	amino acid	Cl	H	OEt
acyl	amino acid	Cl	H	O-cyclopropyl
acyl	amino acid	Cl	H	O-acetyl
acyl	amino acid	Cl	H	SH
acyl	amino acid	Cl	H	SMe
acyl	amino acid	Cl	H	SEt
acyl	amino acid	Cl	H	S-cyclopropyl
acyl	amino acid	Cl	H	F
acyl	amino acid	Cl	H	Cl
acyl	amino acid	Cl	H	Br
acyl	amino acid	Cl	H	I
H	acyl	Cl	H	H
H	acyl	Cl	H	NH_2
H	acyl	Cl	H	NH-cyclopropyl
H	acyl	Cl	H	NH-methyl
H	acyl	Cl	H	NH-ethyl
H	acyl	Cl	H	NH-acetyl
H	acyl	Cl	H	OH
H	acyl	Cl	H	OMe
H	acyl	Cl	H	OEt
H	acyl	Cl	H	O-cyclopropyl
H	acyl	Cl	H	O-acetyl
H	acyl	Cl	H	SH
H	acyl	Cl	H	SMe
H	acyl	Cl	H	SEt
H	acyl	Cl	H	S-cyclopropyl
H	acyl	Cl	H	F
H	acyl	Cl	H	Cl
H	acyl	Cl	H	Br
H	acyl	Cl	H	I
H	amino acid	Cl	H	H
H	amino acid	Cl	H	NH_2
H	amino acid	Cl	H	NH-cyclopropyl
H	amino acid	Cl	H	NH-methyl
H	amino acid	Cl	H	NH-ethyl
H	amino acid	Cl	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	H	OH
H	amino acid	Cl	H	OMe
H	amino acid	Cl	H	OEt
H	amino acid	Cl	H	O-cyclopropyl
H	amino acid	Cl	H	O-acetyl
H	amino acid	Cl	H	SH
H	amino acid	Cl	H	SMe
H	amino acid	Cl	H	SEt
H	amino acid	Cl	H	S-cyclopropyl
H	amino acid	Cl	H	F
H	amino acid	Cl	H	Cl
H	amino acid	Cl	H	Br
H	amino acid	Cl	H	I
amino acid	amino acid	Cl	H	H
amino acid	amino acid	Cl	H	NH_2
amino acid	amino acid	Cl	H	NH-cyclopropyl
amino acid	amino acid	Cl	H	NH-methyl
amino acid	amino acid	Cl	H	NH-ethyl
amino acid	amino acid	Cl	H	NH-acetyl
amino acid	amino acid	Cl	H	OH
amino acid	amino acid	Cl	H	OMe
amino acid	amino acid	Cl	H	OEt
amino acid	amino acid	Cl	H	O-cyclopropyl
amino acid	amino acid	Cl	H	O-acetyl
amino acid	amino acid	Cl	H	SH
amino acid	amino acid	Cl	H	SMe
amino acid	amino acid	Cl	H	SEt
amino acid	amino acid	Cl	H	S-cyclopropyl
amino acid	amino acid	Cl	H	F
amino acid	amino acid	Cl	H	Cl
amino acid	amino acid	Cl	H	Br
amino acid	amino acid	Cl	H	I
amino acid	H	Cl	H	H
amino acid	H	Cl	H	NH_2
amino acid	H	Cl	H	NH-cyclopropyl
amino acid	H	Cl	H	NH-methyl
amino acid	H	Cl	H	NH-ethyl
amino acid	H	Cl	H	NH-acetyl
amino acid	H	Cl	H	OH
amino acid	H	Cl	H	OMe
amino acid	H	Cl	H	OEt
amino acid	H	Cl	H	O-cyclopropyl
amino acid	H	Cl	H	O-acetyl
amino acid	H	Cl	H	SH
amino acid	H	Cl	H	SMe
amino acid	H	Cl	H	SEt
amino acid	H	Cl	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	H	F
amino acid	H	Cl	H	Cl
amino acid	H	Cl	H	Br
amino acid	H	Cl	H	I
amino acid	acyl	Cl	H	H
amino acid	acyl	Cl	H	NH_2
amino acid	acyl	Cl	H	NH-cyclopropyl
amino acid	acyl	Cl	H	NH-methyl
amino acid	acyl	Cl	H	NH-ethyl
amino acid	acyl	Cl	H	NH-acetyl
amino acid	acyl	Cl	H	OH
amino acid	acyl	Cl	H	OMe
amino acid	acyl	Cl	H	OEt
amino acid	acyl	Cl	H	O-cyclopropyl
amino acid	acyl	Cl	H	O-acetyl
amino acid	acyl	Cl	H	SH
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	Cl	H	F
amino acid	acyl	Cl	H	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	Cl	H	I
acyl	H	Cl	NH_2	H
acyl	H	Cl	NH_2	NH_2
acyl	H	Cl	NH_2	NH-cyclopropyl
acyl	H	Cl	NH_2	NH-methyl
acyl	H	Cl	NH_2	NH-ethyl
acyl	H	Cl	NH_2	NH-acetyl
acyl	H	Cl	NH_2	OH
acyl	H	Cl	NH_2	OMe
acyl	H	Cl	NH_2	OEt
acyl	H	Cl	NH_2	O-cyclopropyl
acyl	H	Cl	NH_2	O-acetyl
acyl	H	Cl	NH_2	SH
acyl	H	Cl	NH_2	SMe
acyl	H	Cl	NH_2	SEt
acyl	H	Cl	NH_2	S-cyclopropyl
acyl	H	Cl	NH_2	F
acyl	H	Cl	NH_2	Cl
acyl	H	Cl	NH_2	Br
acyl	H	Cl	NH_2	I
acyl	acyl	Cl	NH_2	H
acyl	acyl	Cl	NH_2	NH_2
acyl	acyl	Cl	NH_2	NH-cyclopropyl
acyl	acyl	Cl	NH_2	NH-methyl
acyl	acyl	Cl	NH_2	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	NH_2	NH-acetyl
acyl	acyl	Cl	NH_2	OH
acyl	acyl	Cl	NH_2	OMe
acyl	acyl	Cl	NH_2	OEt
acyl	acyl	Cl	NH_2	O-cyclopropyl
acyl	acyl	Cl	NH_2	O-acetyl
acyl	acyl	Cl	NH_2	SH
acyl	acyl	Cl	NH_2	SMe
acyl	acyl	Cl	NH_2	SEt
acyl	acyl	Cl	NH_2	S-cyclopropyl
acyl	acyl	Cl	NH_2	F
acyl	acyl	Cl	NH_2	Cl
acyl	acyl	Cl	NH_2	Br
acyl	acyl	Cl	NH_2	I
acyl	amino acid	Cl	NH_2	H
acyl	amino acid	Cl	NH_2	NH_2
acyl	amino acid	Cl	NH_2	NH-cyclopropyl
acyl	amino acid	Cl	NH_2	NH-methyl
acyl	amino acid	Cl	NH_2	NH-ethyl
acyl	amino acid	Cl	NH_2	NH-acetyl
acyl	amino acid	Cl	NH_2	OH
acyl	amino acid	Cl	NH_2	OMe
acyl	amino acid	Cl	NH_2	OEt
acyl	amino acid	Cl	NH_2	O-cyclopropyl
acyl	amino acid	Cl	NH_2	O-acetyl
acyl	amino acid	Cl	NH_2	SH
acyl	amino acid	Cl	NH_2	SMe
acyl	amino acid	Cl	NH_2	SEt
acyl	amino acid	Cl	NH_2	S-cyclopropyl
acyl	amino acid	Cl	NH_2	F
acyl	amino acid	Cl	NH_2	Cl
acyl	amino acid	Cl	NH_2	Br
acyl	amino acid	Cl	NH_2	I
H	acyl	Cl	NH_2	H
H	acyl	Cl	NH_2	NH_2
H	acyl	Cl	NH_2	NH-cyclopropyl
H	acyl	Cl	NH_2	NH-methyl
H	acyl	Cl	NH_2	NH-ethyl
H	acyl	Cl	NH_2	NH-acetyl
H	acyl	Cl	NH_2	OH
H	acyl	Cl	NH_2	OMe
H	acyl	Cl	NH_2	OEt
H	acyl	Cl	NH_2	O-cyclopropyl
H	acyl	Cl	NH_2	O-acetyl
H	acyl	Cl	NH_2	SH
H	acyl	Cl	NH_2	SMe
H	acyl	Cl	NH_2	SEt

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	NH_2	S-cyclopropyl
H	acyl	Cl	NH_2	F
H	acyl	Cl	NH_2	Cl
H	acyl	Cl	NH_2	Br
H	acyl	Cl	NH_2	I
H	amino acid	Cl	NH_2	H
H	amino acid	Cl	NH_2	NH_2
H	amino acid	Cl	NH_2	NH-cyclopropyl
H	amino acid	Cl	NH_2	NH-methyl
H	amino acid	Cl	NH_2	NH-ethyl
H	amino acid	Cl	NH_2	NH-acetyl
H	amino acid	Cl	NH_2	OH
H	amino acid	Cl	NH_2	OMe
H	amino acid	Cl	NH_2	OEt
H	amino acid	Cl	NH_2	O-cyclopropyl
H	amino acid	Cl	NH_2	O-acetyl
H	amino acid	Cl	NH_2	SH
H	amino acid	Cl	NH_2	SMe
H	amino acid	Cl	NH_2	SEt
H	amino acid	Cl	NH_2	S-cyclopropyl
H	amino acid	Cl	NH_2	F
H	amino acid	Cl	NH_2	Cl
H	amino acid	Cl	NH_2	Br
H	amino acid	Cl	NH_2	I
amino acid	amino acid	Cl	NH_2	H
amino acid	amino acid	Cl	NH_2	NH_2
amino acid	amino acid	Cl	NH_2	NH-cyclopropyl
amino acid	amino acid	Cl	NH_2	NH-methyl
amino acid	amino acid	Cl	NH_2	NH-ethyl
amino acid	amino acid	Cl	NH_2	NH-acetyl
amino acid	amino acid	Cl	NH_2	OH
amino acid	amino acid	Cl	NH_2	OMe
amino acid	amino acid	Cl	NH_2	OEt
amino acid	amino acid	Cl	NH_2	O-cyclopropyl
amino acid	amino acid	Cl	NH_2	O-acetyl
amino acid	amino acid	Cl	NH_2	SH
amino acid	amino acid	Cl	NH_2	SMe
amino acid	amino acid	Cl	NH_2	SEt
amino acid	amino acid	Cl	NH_2	S-cyclopropyl
amino acid	amino acid	Cl	NH_2	F
amino acid	amino acid	Cl	NH_2	Cl
amino acid	amino acid	Cl	NH_2	Br
amino acid	amino acid	Cl	NH_2	I
amino acid	H	Cl	NH_2	H
amino acid	H	Cl	NH_2	NH_2
amino acid	H	Cl	NH_2	NH-cyclopropyl
amino acid	H	Cl	NH_2	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	NH_2	NH-ethyl
amino acid	H	Cl	NH_2	NH-acetyl
amino acid	H	Cl	NH_2	OH
amino acid	H	Cl	NH_2	OMe
amino acid	H	Cl	NH_2	OEt
amino acid	H	Cl	NH_2	O-cyclopropyl
amino acid	H	Cl	NH_2	O-acetyl
amino acid	H	Cl	NH_2	SH
amino acid	H	Cl	NH_2	SMe
amino acid	H	Cl	NH_2	SEt
amino acid	H	Cl	NH_2	S-cyclopropyl
amino acid	H	Cl	NH_2	F
amino acid	H	Cl	NH_2	Cl
amino acid	H	Cl	NH_2	Br
amino acid	H	Cl	NH_2	I
amino acid	acyl	Cl	NH_2	H
amino acid	acyl	Cl	NH_2	NH_2
amino acid	acyl	Cl	NH_2	NH-cyclopropyl
amino acid	acyl	Cl	NH_2	NH-methyl
amino acid	acyl	Cl	NH_2	NH-ethyl
amino acid	acyl	Cl	NH_2	NH-acetyl
amino acid	acyl	Cl	NH_2	OH
amino acid	acyl	Cl	NH_2	OMe
amino acid	acyl	Cl	NH_2	OEt
amino acid	acyl	Cl	NH_2	O-cyclopropyl
amino acid	acyl	Cl	NH_2	O-acetyl
amino acid	acyl	Cl	NH_2	SH
amino acid	acyl	Cl	NH_2	SMe
amino acid	acyl	Cl	NH_2	SEt
amino acid	acyl	Cl	NH_2	S-cyclopropyl
amino acid	acyl	Cl	NH_2	F
amino acid	acyl	Cl	NH_2	Cl
amino acid	acyl	Cl	NH_2	Br
amino acid	acyl	Cl	NH_2	I
acyl	H	SH	NH_2	H
acyl	H	SH	NH_2	NH_2
acyl	H	SH	NH_2	NH-cyclopropyl
acyl	H	SH	NH_2	NH-methyl
acyl	H	SH	NH_2	NH-ethyl
acyl	H	SH	NH_2	NH-acetyl
acyl	H	SH	NH_2	OH
acyl	H	SH	NH_2	OMe
acyl	H	SH	NH_2	OEt
acyl	H	SH	NH_2	O-cyclopropyl
acyl	H	SH	NH_2	O-acetyl
acyl	H	SH	NH_2	SH
acyl	H	SH	NH_2	SMe

R^2	R^3	X^1	X^2	Y
acyl	H	SH	NH_2	SEt
acyl	H	SH	NH_2	S-cyclopropyl
acyl	H	SH	NH_2	F
acyl	H	SH	NH_2	Cl
acyl	H	SH	NH_2	Br
acyl	H	SH	NH_2	I
acyl	acyl	SH	NH_2	H
acyl	acyl	SH	NH_2	NH_2
acyl	acyl	SH	NH_2	NH-cyclopropyl
acyl	acyl	SH	NH_2	NH-methyl
acyl	acyl	SH	NH_2	NH-ethyl
acyl	acyl	SH	NH_2	NH-acetyl
acyl	acyl	SH	NH_2	OH
acyl	acyl	SH	NH_2	OMe
acyl	acyl	SH	NH_2	OEt
acyl	acyl	SH	NH_2	O-cyclopropyl
acyl	acyl	SH	NH_2	O-acetyl
acyl	acyl	SH	NH_2	SH
acyl	acyl	SH	NH_2	SMe
acyl	acyl	SH	NH_2	SEt
acyl	acyl	SH	NH_2	S-cyclopropyl
acyl	acyl	SH	NH_2	F
acyl	acyl	SH	NH_2	Cl
acyl	acyl	SH	NH_2	Br
acyl	acyl	SH	NH_2	I
acyl	amino acid	SH	NH_2	H
acyl	amino acid	SH	NH_2	NH_2
acyl	amino acid	SH	NH_2	NH-cyclopropyl
acyl	amino acid	SH	NH_2	NH-methyl
acyl	amino acid	SH	NH_2	NH-ethyl
acyl	amino acid	SH	NH_2	NH-acetyl
acyl	amino acid	SH	NH_2	OH
acyl	amino acid	SH	NH_2	OMe
acyl	amino acid	SH	NH_2	OEt
acyl	amino acid	SH	NH_2	O-cyclopropyl
acyl	amino acid	SH	NH_2	O-acetyl
acyl	amino acid	SH	NH_2	SH
acyl	amino acid	SH	NH_2	SMe
acyl	amino acid	SH	NH_2	SEt
acyl	amino acid	SH	NH_2	S-cyclopropyl
acyl	amino acid	SH	NH_2	F
acyl	amino acid	SH	NH_2	Cl
acyl	amino acid	SH	NH_2	Br
acyl	amino acid	SH	NH_2	I
H	acyl	SH	NH_2	H
H	acyl	SH	NH_2	NH_2
H	acyl	SH	NH_2	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	SH	NH_2	NH-methyl
H	acyl	SH	NH_2	NH-ethyl
H	acyl	SH	NH_2	NH-acetyl
H	acyl	SH	NH_2	OH
H	acyl	SH	NH_2	OMe
H	acyl	SH	NH_2	OEt
H	acyl	SH	NH_2	O-cyclopropyl
H	acyl	SH	NH_2	O-acetyl
H	acyl	SH	NH_2	SH
H	acyl	SH	NH_2	SMe
H	acyl	SH	NH_2	SEt
H	acyl	SH	NH_2	S-cyclopropyl
H	acyl	SH	NH_2	F
H	acyl	SH	NH_2	Cl
H	acyl	SH	NH_2	Br
H	acyl	SH	NH_2	I
H	amino acid	SH	NH_2	H
H	amino acid	SH	NH_2	NH_2
H	amino acid	SH	NH_2	NH-cyclopropyl
H	amino acid	SH	NH_2	NH-methyl
H	amino acid	SH	NH_2	NH-ethyl
H	amino acid	SH	NH_2	NH-acetyl
H	amino acid	SH	NH_2	OH
H	amino acid	SH	NH_2	OMe
H	amino acid	SH	NH_2	OEt
H	amino acid	SH	NH_2	O-cyclopropyl
H	amino acid	SH	NH_2	O-acetyl
H	amino acid	SH	NH_2	SH
H	amino acid	SH	NH_2	SMe
H	amino acid	SH	NH_2	SEt
H	amino acid	SH	NH_2	S-cyclopropyl
H	amino acid	SH	NH_2	F
H	amino acid	SH	NH_2	Cl
H	amino acid	SH	NH_2	Br
H	amino acid	SH	NH_2	I
amino acid	amino acid	SH	NH_2	H
amino acid	amino acid	SH	NH_2	NH_2
amino acid	amino acid	SH	NH_2	NH-cyclopropyl
amino acid	amino acid	SH	NH_2	NH-methyl
amino acid	amino acid	SH	NH_2	NH-ethyl
amino acid	amino acid	SH	NH_2	NH-acetyl
amino acid	amino acid	SH	NH_2	OH
amino acid	amino acid	SH	NH_2	OMe
amino acid	amino acid	SH	NH_2	OEt
amino acid	amino acid	SH	NH_2	O-cyclopropyl
amino acid	amino acid	SH	NH_2	O-acetyl
amino acid	amino acid	SH	NH_2	SH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	NH_2	SMe
amino acid	amino acid	SH	NH_2	SEt
amino acid	amino acid	SH	NH_2	S-cyclopropyl
amino acid	amino acid	SH	NH_2	F
amino acid	amino acid	SH	NH_2	Cl
amino acid	amino acid	SH	NH_2	Br
amino acid	amino acid	SH	NH_2	I
amino acid	H	SH	NH_2	H
amino acid	H	SH	NH_2	NH_2
amino acid	H	SH	NH_2	NH-cyclopropyl
amino acid	H	SH	NH_2	NH-methyl
amino acid	H	SH	NH_2	NH-ethyl
amino acid	H	SH	NH_2	NH-acetyl
amino acid	H	SH	NH_2	OH
amino acid	H	SH	NH_2	OMe
amino acid	H	SH	NH_2	OEt
amino acid	H	SH	NH_2	O-cyclopropyl
amino acid	H	SH	NH_2	O-acetyl
amino acid	H	SH	NH_2	SH
amino acid	H	SH	NH_2	SMe
amino acid	H	SH	NH_2	SEt
amino acid	H	SH	NH_2	S-cyclopropyl
amino acid	H	SH	NH_2	F
amino acid	H	SH	NH_2	Cl
amino acid	H	SH	NH_2	Br
amino acid	H	SH	NH_2	I
amino acid	acyl	SH	NH_2	H
amino acid	acyl	SH	NH_2	NH_2
amino acid	acyl	SH	NH_2	NH-cyclopropyl
amino acid	acyl	SH	NH_2	NH-methyl
amino acid	acyl	SH	NH_2	NH-ethyl
amino acid	acyl	SH	NH_2	NH-acetyl
amino acid	acyl	SH	NH_2	OH
amino acid	acyl	SH	NH_2	OMe
amino acid	acyl	SH	NH_2	OEt
amino acid	acyl	SH	NH_2	O-cyclopropyl
amino acid	acyl	SH	NH_2	O-acetyl
amino acid	acyl	SH	NH_2	SH
amino acid	acyl	SH	NH_2	SMe
amino acid	acyl	SH	NH_2	SEt
amino acid	acyl	SH	NH_2	S-cyclopropyl
amino acid	acyl	SH	NH_2	F
amino acid	acyl	SH	NH_2	Cl
amino acid	acyl	SH	NH_2	Br
amino acid	acyl	SH	NH_2	I
acyl	H	Br	NH_2	H
acyl	H	Br	NH_2	NH_2

R^2	R^3	X^1	X^2	Y
acyl	H	Br	NH_2	NH-cyclopropyl
acyl	H	Br	NH_2	NH-methyl
acyl	H	Br	NH_2	NH-ethyl
acyl	H	Br	NH_2	NH-acetyl
acyl	H	Br	NH_2	OH
acyl	H	Br	NH_2	OMe
acyl	H	Br	NH_2	OEt
acyl	H	Br	NH_2	O-cyclopropyl
acyl	H	Br	NH_2	O-acetyl
acyl	H	Br	NH_2	SH
acyl	H	Br	NH_2	SMe
acyl	H	Br	NH_2	SEt
acyl	H	Br	NH_2	S-cyclopropyl
acyl	H	Br	NH_2	F
acyl	H	Br	NH_2	Cl
acyl	H	Br	NH_2	Br
acyl	H	Br	NH_2	I
acyl	acyl	Br	NH_2	H
acyl	acyl	Br	NH_2	NH_2
acyl	acyl	Br	NH_2	NH-cyclopropyl
acyl	acyl	Br	NH_2	NH-methyl
acyl	acyl	Br	NH_2	NH-ethyl
acyl	acyl	Br	NH_2	NH-acetyl
acyl	acyl	Br	NH_2	OH
acyl	acyl	Br	NH_2	OMe
acyl	acyl	Br	NH_2	OEt
acyl	acyl	Br	NH_2	O-cyclopropyl
acyl	acyl	Br	NH_2	O-acetyl
acyl	acyl	Br	NH_2	SH
acyl	acyl	Br	NH_2	SMe
acyl	acyl	Br	NH_2	SEt
acyl	acyl	Br	NH_2	S-cyclopropyl
acyl	acyl	Br	NH_2	F
acyl	acyl	Br	NH_2	Cl
acyl	acyl	Br	NH_2	Br
acyl	acyl	Br	NH_2	I
acyl	amino acid	Br	NH_2	H
acyl	amino acid	Br	NH_2	NH_2
acyl	amino acid	Br	NH_2	NH-cyclopropyl
acyl	amino acid	Br	NH_2	NH-methyl
acyl	amino acid	Br	NH_2	NH-ethyl
acyl	amino acid	Br	NH_2	NH-acetyl
acyl	amino acid	Br	NH_2	OH
acyl	amino acid	Br	NH_2	OMe
acyl	amino acid	Br	NH_2	OEt
acyl	amino acid	Br	NH_2	O-cyclopropyl
acyl	amino acid	Br	NH_2	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	NH_2	SH
acyl	amino acid	Br	NH_2	SMe
acyl	amino acid	Br	NH_2	SEt
acyl	amino acid	Br	NH_2	S-cyclopropyl
acyl	amino acid	Br	NH_2	F
acyl	amino acid	Br	NH_2	Cl
acyl	amino acid	Br	NH_2	Br
acyl	amino acid	Br	NH_2	I
H	acyl	Br	NH_2	H
H	acyl	Br	NH_2	NH_2
H	acyl	Br	NH_2	NH-cyclopropyl
H	acyl	Br	NH_2	NH-methyl
H	acyl	Br	NH_2	NH-ethyl
H	acyl	Br	NH_2	NH-acetyl
H	acyl	Br	NH_2	OH
H	acyl	Br	NH_2	OMe
H	acyl	Br	NH_2	OEt
H	acyl	Br	NH_2	O-cyclopropyl
H	acyl	Br	NH_2	O-acetyl
H	acyl	Br	NH_2	SH
H	acyl	Br	NH_2	SMe
H	acyl	Br	NH_2	SEt
H	acyl	Br	NH_2	S-cyclopropyl
H	acyl	Br	NH_2	F
H	acyl	Br	NH_2	Cl
H	acyl	Br	NH_2	Br
H	acyl	Br	NH_2	I
H	amino acid	Br	NH_2	H
H	amino acid	Br	NH_2	NH_2
H	amino acid	Br	NH_2	NH-cyclopropyl
H	amino acid	Br	NH_2	NH-methyl
H	amino acid	Br	NH_2	NH-ethyl
H	amino acid	Br	NH_2	NH-acetyl
H	amino acid	Br	NH_2	OH
H	amino acid	Br	NH_2	OMe
H	amino acid	Br	NH_2	OEt
H	amino acid	Br	NH_2	O-cyclopropyl
H	amino acid	Br	NH_2	O-acetyl
H	amino acid	Br	NH_2	SH
H	amino acid	Br	NH_2	SMe
H	amino acid	Br	NH_2	SEt
H	amino acid	Br	NH_2	S-cyclopropyl
H	amino acid	Br	NH_2	F
H	amino acid	Br	NH_2	Cl
H	amino acid	Br	NH_2	Br
H	amino acid	Br	NH_2	I
amino acid	amino acid	Br	NH_2	H

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	NH_2	NH_2
amino acid	amino acid	Br	NH_2	NH-cyclopropyl
amino acid	amino acid	Br	NH_2	NH-methyl
amino acid	amino acid	Br	NH_2	NH-ethyl
amino acid	amino acid	Br	NH_2	NH-acetyl
amino acid	amino acid	Br	NH_2	OH
amino acid	amino acid	Br	NH_2	OMe
amino acid	amino acid	Br	NH_2	OEt
amino acid	amino acid	Br	NH_2	O-cyclopropyl
amino acid	amino acid	Br	NH_2	O-acetyl
amino acid	amino acid	Br	NH_2	SH
amino acid	amino acid	Br	NH_2	SMe
amino acid	amino acid	Br	NH_2	SEt
amino acid	amino acid	Br	NH_2	S-cyclopropyl
amino acid	amino acid	Br	NH_2	F
amino acid	amino acid	Br	NH_2	Cl
amino acid	amino acid	Br	NH_2	Br
amino acid	amino acid	Br	NH_2	I
amino acid	H	Br	NH_2	H
amino acid	H	Br	NH_2	NH_2
amino acid	H	Br	NH_2	NH-cyclopropyl
amino acid	H	Br	NH_2	NH-methyl
amino acid	H	Br	NH_2	NH-ethyl
amino acid	H	Br	NH_2	NH-acetyl
amino acid	H	Br	NH_2	OH
amino acid	H	Br	NH_2	OMe
amino acid	H	Br	NH_2	OEt
amino acid	H	Br	NH_2	O-cyclopropyl
amino acid	H	Br	NH_2	O-acetyl
amino acid	H	Br	NH_2	SH
amino acid	H	Br	NH_2	SMe
amino acid	H	Br	NH_2	SEt
amino acid	H	Br	NH_2	S-cyclopropyl
amino acid	H	Br	NH_2	F
amino acid	H	Br	NH_2	Cl
amino acid	H	Br	NH_2	Br
amino acid	H	Br	NH_2	I
amino acid	acyl	Br	NH_2	H
amino acid	acyl	Br	NH_2	NH_2
amino acid	acyl	Br	NH_2	NH-cyclopropyl
amino acid	acyl	Br	NH_2	NH-methyl
amino acid	acyl	Br	NH_2	NH-ethyl
amino acid	acyl	Br	NH_2	NH-acetyl
amino acid	acyl	Br	NH_2	OH
amino acid	acyl	Br	NH_2	OMe
amino acid	acyl	Br	NH_2	OEt
amino acid	acyl	Br	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	NH_2	O-acetyl
amino acid	acyl	Br	NH_2	SH
amino acid	acyl	Br	NH_2	SMe
amino acid	acyl	Br	NH_2	SEt
amino acid	acyl	Br	NH_2	S-cyclopropyl
amino acid	acyl	Br	NH_2	F
amino acid	acyl	Br	NH_2	Cl
amino acid	acyl	Br	NH_2	Br
amino acid	acyl	Br	NH_2	I
acyl	H	F	NH_2	H
acyl	H	F	NH_2	NH_2
acyl	H	F	NH_2	NH-cyclopropyl
acyl	H	F	NH_2	NH-methyl
acyl	H	F	NH_2	NH-ethyl
acyl	H	F	NH_2	NH-acetyl
acyl	H	F	NH_2	OH
acyl	H	F	NH_2	OMe
acyl	H	F	NH_2	OEt
acyl	H	F	NH_2	O-cyclopropyl
acyl	H	F	NH_2	O-acetyl
acyl	H	F	NH_2	SH
acyl	H	F	NH_2	SMe
acyl	H	F	NH_2	SEt
acyl	H	F	NH_2	S-cyclopropyl
acyl	H	F	NH_2	F
acyl	H	F	NH_2	Cl
acyl	H	F	NH_2	Br
acyl	H	F	NH_2	I
acyl	acyl	F	NH_2	H
acyl	acyl	F	NH_2	NH_2
acyl	acyl	F	NH_2	NH-cyclopropyl
acyl	acyl	F	NH_2	NH-methyl
acyl	acyl	F	NH_2	NH-ethyl
acyl	acyl	F	NH_2	NH-acetyl
acyl	acyl	F	NH_2	OH
acyl	acyl	F	NH_2	OMe
acyl	acyl	F	NH_2	OEt
acyl	acyl	F	NH_2	O-cyclopropyl
acyl	acyl	F	NH_2	O-acetyl
acyl	acyl	F	NH_2	SH
acyl	acyl	F	NH_2	SMe
acyl	acyl	F	NH_2	SEt
acyl	acyl	F	NH_2	S-cyclopropyl
acyl	acyl	F	NH_2	F
acyl	acyl	F	NH_2	Cl
acyl	acyl	F	NH_2	Br
acyl	acyl	F	NH_2	I

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	NH_2	H
acyl	amino acid	F	NH_2	NH_2
acyl	amino acid	F	NH_2	NH-cyclopropyl
acyl	amino acid	F	NH_2	NH-methyl
acyl	amino acid	F	NH_2	NH-ethyl
acyl	amino acid	F	NH_2	NH-acetyl
acyl	amino acid	F	NH_2	OH
acyl	amino acid	F	NH_2	OMe
acyl	amino acid	F	NH_2	OEt
acyl	amino acid	F	NH_2	O-cyclopropyl
acyl	amino acid	F	NH_2	O-acetyl
acyl	amino acid	F	NH_2	SH
acyl	amino acid	F	NH_2	SMe
acyl	amino acid	F	NH_2	SEt
acyl	amino acid	F	NH_2	S-cyclopropyl
acyl	amino acid	F	NH_2	F
acyl	amino acid	F	NH_2	Cl
acyl	amino acid	F	NH_2	Br
acyl	amino acid	F	NH_2	I
H	acyl	F	NH_2	H
H	acyl	F	NH_2	NH_2
H	acyl	F	NH_2	NH-cyclopropyl
H	acyl	F	NH_2	NH-methyl
H	acyl	F	NH_2	NH-ethyl
H	acyl	F	NH_2	NH-acetyl
H	acyl	F	NH_2	OH
H	acyl	F	NH_2	OMe
H	acyl	F	NH_2	OEt
H	acyl	F	NH_2	O-cyclopropyl
H	acyl	F	NH_2	O-acetyl
H	acyl	F	NH_2	SH
H	acyl	F	NH_2	SMe
H	acyl	F	NH_2	SEt
H	acyl	F	NH_2	S-cyclopropyl
H	acyl	F	NH_2	F
H	acyl	F	NH_2	Cl
H	acyl	F	NH_2	Br
H	acyl	F	NH_2	I
H	amino acid	F	NH_2	H
H	amino acid	F	NH_2	NH_2
H	amino acid	F	NH_2	NH-cyclopropyl
H	amino acid	F	NH_2	NH-methyl
H	amino acid	F	NH_2	NH-ethyl
H	amino acid	F	NH_2	NH-acetyl
H	amino acid	F	NH_2	OH
H	amino acid	F	NH_2	OMe
H	amino acid	F	NH_2	OEt

R^2	R^3	X^1	X^2	Y
H	amino acid	F	NH_2	O-cyclopropyl
H	amino acid	F	NH_2	O-acetyl
H	amino acid	F	NH_2	SH
H	amino acid	F	NH_2	SMe
H	amino acid	F	NH_2	SEt
H	amino acid	F	NH_2	S-cyclopropyl
H	amino acid	F	NH_2	F
H	amino acid	F	NH_2	Cl
H	amino acid	F	NH_2	Br
H	amino acid	F	NH_2	I
amino acid	amino acid	F	NH_2	H
amino acid	amino acid	F	NH_2	NH_2
amino acid	amino acid	F	NH_2	NH-cyclopropyl
amino acid	amino acid	F	NH_2	NH-methyl
amino acid	amino acid	F	NH_2	NH-ethyl
amino acid	amino acid	F	NH_2	NH-acetyl
amino acid	amino acid	F	NH_2	OH
amino acid	amino acid	F	NH_2	OMe
amino acid	amino acid	F	NH_2	OEt
amino acid	amino acid	F	NH_2	O-cyclopropyl
amino acid	amino acid	F	NH_2	O-acetyl
amino acid	amino acid	F	NH_2	SH
amino acid	amino acid	F	NH_2	SMe
amino acid	amino acid	F	NH_2	SEt
amino acid	amino acid	F	NH_2	S-cyclopropyl
amino acid	amino acid	F	NH_2	F
amino acid	amino acid	F	NH_2	Cl
amino acid	amino acid	F	NH_2	Br
amino acid	amino acid	F	NH_2	I
amino acid	H	F	NH_2	H
amino acid	H	F	NH_2	NH_2
amino acid	H	F	NH_2	NH-cyclopropyl
amino acid	H	F	NH_2	NH-methyl
amino acid	H	F	NH_2	NH-ethyl
amino acid	H	F	NH_2	NH-acetyl
amino acid	H	F	NH_2	OH
amino acid	H	F	NH_2	OMe
amino acid	H	F	NH_2	OEt
amino acid	H	F	NH_2	O-cyclopropyl
amino acid	H	F	NH_2	O-acetyl
amino acid	H	F	NH_2	SH
amino acid	H	F	NH_2	SMe
amino acid	H	F	NH_2	SEt
amino acid	H	F	NH_2	S-cyclopropyl
amino acid	H	F	NH_2	F
amino acid	H	F	NH_2	Cl
amino acid	H	F	NH_2	Br

R^2	R^3	X^1	X^2	Y
amino acid	H	F	NH_2	I
amino acid	acyl	F	NH_2	H
amino acid	acyl	F	NH_2	NH_2
amino acid	acyl	F	NH_2	NH-cyclopropyl
amino acid	acyl	F	NH_2	NH-methyl
amino acid	acyl	F	NH_2	NH-ethyl
amino acid	acyl	F	NH_2	NH-acetyl
amino acid	acyl	F	NH_2	OH
amino acid	acyl	F	NH_2	OMe
amino acid	acyl	F	NH_2	OEt
amino acid	acyl	F	NH_2	O-cyclopropyl
amino acid	acyl	F	NH_2	O-acetyl
amino acid	acyl	F	NH_2	SH
amino acid	acyl	F	NH_2	SMe
amino acid	acyl	F	NH_2	SEt
amino acid	acyl	F	NH_2	S-cyclopropyl
amino acid	acyl	F	NH_2	F
amino acid	acyl	F	NH_2	Cl
amino acid	acyl	F	NH_2	Br
amino acid	acyl	F	NH_2	I
acyl	H	NH_2	F	H
acyl	H	NH_2	F	NH_2
acyl	H	NH_2	F	NH-cyclopropyl
acyl	H	NH_2	F	NH-methyl
acyl	H	NH_2	F	NH-ethyl
acyl	H	NH_2	F	NH-acetyl
acyl	H	NH_2	F	OH
acyl	H	NH_2	F	OMe
acyl	H	NH_2	F	OEt
acyl	H	NH_2	F	O-cyclopropyl
acyl	H	NH_2	F	O-acetyl
acyl	H	NH_2	F	SH
acyl	H	NH_2	F	SMe
acyl	H	NH_2	F	SEt
acyl	H	NH_2	F	S-cyclopropyl
acyl	H	NH_2	F	F
acyl	H	NH_2	F	Cl
acyl	H	NH_2	F	Br
acyl	H	NH_2	F	I
acyl	acyl	NH_2	F	H
acyl	acyl	NH_2	F	NH_2
acyl	acyl	NH_2	F	NH-cyclopropyl
acyl	acyl	NH_2	F	NH-methyl
acyl	acyl	NH_2	F	NH-ethyl
acyl	acyl	NH_2	F	NH-acetyl
acyl	acyl	NH_2	F	OH
acyl	acyl	NH_2	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	F	OEt
acyl	acyl	NH_2	F	O-cyclopropyl
acyl	acyl	NH_2	F	O-acetyl
acyl	acyl	NH_2	F	SH
acyl	acyl	NH_2	F	SMe
acyl	acyl	NH_2	F	SEt
acyl	acyl	NH_2	F	S-cyclopropyl
acyl	acyl	NH_2	F	F
acyl	acyl	NH_2	F	Cl
acyl	acyl	NH_2	F	Br
acyl	acyl	NH_2	F	I
acyl	amino acid	NH_2	F	H
acyl	amino acid	NH_2	F	NH_2
acyl	amino acid	NH_2	F	NH-cyclopropyl
acyl	amino acid	NH_2	F	NH-methyl
acyl	amino acid	NH_2	F	NH-ethyl
acyl	amino acid	NH_2	F	NH-acetyl
acyl	amino acid	NH_2	F	OH
acyl	amino acid	NH_2	F	OMe
acyl	amino acid	NH_2	F	OEt
acyl	amino acid	NH_2	F	O-cyclopropyl
acyl	amino acid	NH_2	F	O-acetyl
acyl	amino acid	NH_2	F	SH
acyl	amino acid	NH_2	F	SMe
acyl	amino acid	NH_2	F	SEt
acyl	amino acid	NH_2	F	S-cyclopropyl
acyl	amino acid	NH_2	F	F
acyl	amino acid	NH_2	F	Cl
acyl	amino acid	NH_2	F	Br
acyl	amino acid	NH_2	F	I
H	acyl	NH_2	F	H
H	acyl	NH_2	F	NH_2
H	acyl	NH_2	F	NH-cyclopropyl
H	acyl	NH_2	F	NH-methyl
H	acyl	NH_2	F	NH-ethyl
H	acyl	NH_2	F	NH-acetyl
H	acyl	NH_2	F	OH
H	acyl	NH_2	F	OMe
H	acyl	NH_2	F	OEt
H	acyl	NH_2	F	O-cyclopropyl
H	acyl	NH_2	F	O-acetyl
H	acyl	NH_2	F	SH
H	acyl	NH_2	F	SMe
H	acyl	NH_2	F	SEt
H	acyl	NH_2	F	S-cyclopropyl
H	acyl	NH_2	F	F
H	acyl	NH_2	F	Cl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	F	Br
H	acyl	NH_2	F	I
H	amino acid	NH_2	F	H
H	amino acid	NH_2	F	NH_2
H	amino acid	NH_2	F	NH-cyclopropyl
H	amino acid	NH_2	F	NH-methyl
H	amino acid	NH_2	F	NH-ethyl
H	amino acid	NH_2	F	NH-acetyl
H	amino acid	NH_2	F	OH
H	amino acid	NH_2	F	OMe
H	amino acid	NH_2	F	OEt
H	amino acid	NH_2	F	O-cyclopropyl
H	amino acid	NH_2	F	O-acetyl
H	amino acid	NH_2	F	SH
H	amino acid	NH_2	F	SMe
H	amino acid	NH_2	F	SEt
H	amino acid	NH_2	F	S-cyclopropyl
H	amino acid	NH_2	F	F
H	amino acid	NH_2	F	Cl
H	amino acid	NH_2	F	Br
H	amino acid	NH_2	F	I
amino acid	amino acid	NH_2	F	H
amino acid	amino acid	NH_2	F	NH_2
amino acid	amino acid	NH_2	F	NH-cyclopropyl
amino acid	amino acid	NH_2	F	NH-methyl
amino acid	amino acid	NH_2	F	NH-ethyl
amino acid	amino acid	NH_2	F	NH-acetyl
amino acid	amino acid	NH_2	F	OH
amino acid	amino acid	NH_2	F	OMe
amino acid	amino acid	NH_2	F	OEt
amino acid	amino acid	NH_2	F	O-cyclopropyl
amino acid	amino acid	NH_2	F	O-acetyl
amino acid	amino acid	NH_2	F	SH
amino acid	amino acid	NH_2	F	SMe
amino acid	amino acid	NH_2	F	SEt
amino acid	amino acid	NH_2	F	S-cyclopropyl
amino acid	amino acid	NH_2	F	F
amino acid	amino acid	NH_2	F	Cl
amino acid	amino acid	NH_2	F	Br
amino acid	amino acid	NH_2	F	I
amino acid	H	NH_2	F	H
amino acid	H	NH_2	F	NH_2
amino acid	H	NH_2	F	NH-cyclopropyl
amino acid	H	NH_2	F	NH-methyl
amino acid	H	NH_2	F	NH-ethyl
amino acid	H	NH_2	F	NH-acetyl
amino acid	H	NH_2	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	F	OMe
amino acid	H	NH_2	F	OEt
amino acid	H	NH_2	F	O-cyclopropyl
amino acid	H	NH_2	F	O-acetyl
amino acid	H	NH_2	F	SH
amino acid	H	NH_2	F	SMe
amino acid	H	NH_2	F	SEt
amino acid	H	NH_2	F	S-cyclopropyl
amino acid	H	NH_2	F	F
amino acid	H	NH_2	F	Cl
amino acid	H	NH_2	F	Br
amino acid	H	NH_2	F	I
amino acid	acyl	NH_2	F	H
amino acid	acyl	NH_2	F	NH_2
amino acid	acyl	NH_2	F	NH-cyclopropyl
amino acid	acyl	NH_2	F	NH-methyl
amino acid	acyl	NH_2	F	NH-ethyl
amino acid	acyl	NH_2	F	NH-acetyl
amino acid	acyl	NH_2	F	OH
amino acid	acyl	NH_2	F	OMe
amino acid	acyl	NH_2	F	OEt
amino acid	acyl	NH_2	F	O-cyclopropyl
amino acid	acyl	NH_2	F	O-acetyl
amino acid	acyl	NH_2	F	SH
amino acid	acyl	NH_2	F	SMe
amino acid	acyl	NH_2	F	SEt
amino acid	acyl	NH_2	F	S-cyclopropyl
amino acid	acyl	NH_2	F	F
amino acid	acyl	NH_2	F	Cl
amino acid	acyl	NH_2	F	Br
amino acid	acyl	NH_2	F	I
acyl	H	NH_2	Br	H
acyl	H	NH_2	Br	NH_2
acyl	H	NH_2	Br	NH-cyclopropyl
acyl	H	NH_2	Br	NH-methyl
acyl	H	NH_2	Br	NH-ethyl
acyl	H	NH_2	Br	NH-acetyl
acyl	H	NH_2	Br	OH
acyl	H	NH_2	Br	OMe
acyl	H	NH_2	Br	OEt
acyl	H	NH_2	Br	O-cyclopropyl
acyl	H	NH_2	Br	O-acetyl
acyl	H	NH_2	Br	SH
acyl	H	NH_2	Br	SMe
acyl	H	NH_2	Br	SEt
acyl	H	NH_2	Br	S-cyclopropyl
acyl	H	NH_2	Br	F

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Br	Cl
acyl	H	NH_2	Br	Br
acyl	H	NH_2	Br	I
acyl	acyl	NH_2	Br	H
acyl	acyl	NH_2	Br	NH_2
acyl	acyl	NH_2	Br	NH-cyclopropyl
acyl	acyl	NH_2	Br	NH-methyl
acyl	acyl	NH_2	Br	NH-ethyl
acyl	acyl	NH_2	Br	NH-acetyl
acyl	acyl	NH_2	Br	OH
acyl	acyl	NH_2	Br	OMe
acyl	acyl	NH_2	Br	OEt
acyl	acyl	NH_2	Br	O-cyclopropyl
acyl	acyl	NH_2	Br	O-acetyl
acyl	acyl	NH_2	Br	SH
acyl	acyl	NH_2	Br	SMe
acyl	acyl	NH_2	Br	SEt
acyl	acyl	NH_2	Br	S-cyclopropyl
acyl	acyl	NH_2	Br	F
acyl	acyl	NH_2	Br	Cl
acyl	acyl	NH_2	Br	Br
acyl	acyl	NH_2	Br	I
acyl	amino acid	NH_2	Br	H
acyl	amino acid	NH_2	Br	NH_2
acyl	amino acid	NH_2	Br	NH-cyclopropyl
acyl	amino acid	NH_2	Br	NH-methyl
acyl	amino acid	NH_2	Br	NH-ethyl
acyl	amino acid	NH_2	Br	NH-acetyl
acyl	amino acid	NH_2	Br	OH
acyl	amino acid	NH_2	Br	OMe
acyl	amino acid	NH_2	Br	OEt
acyl	amino acid	NH_2	Br	O-cyclopropyl
acyl	amino acid	NH_2	Br	O-acetyl
acyl	amino acid	NH_2	Br	SH
acyl	amino acid	NH_2	Br	SMe
acyl	amino acid	NH_2	Br	SEt
acyl	amino acid	NH_2	Br	S-cyclopropyl
acyl	amino acid	NH_2	Br	F
acyl	amino acid	NH_2	Br	Cl
acyl	amino acid	NH_2	Br	Br
acyl	amino acid	NH_2	Br	I
H	acyl	NH_2	Br	H
H	acyl	NH_2	Br	NH_2
H	acyl	NH_2	Br	NH-cyclopropyl
H	acyl	NH_2	Br	NH-methyl
H	acyl	NH_2	Br	NH-ethyl
H	acyl	NH_2	Br	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	Br	OH
H	acyl	NH_2	Br	OMe
H	acyl	NH_2	Br	OEt
H	acyl	NH_2	Br	O-cyclopropyl
H	acyl	NH_2	Br	O-acetyl
H	acyl	NH_2	Br	SH
H	acyl	NH_2	Br	SMe
H	acyl	NH_2	Br	SEt
H	acyl	NH_2	Br	S-cyclopropyl
H	acyl	NH_2	Br	F
H	acyl	NH_2	Br	Cl
H	acyl	NH_2	Br	Br
H	acyl	NH_2	Br	I
H	amino acid	NH_2	Br	H
H	amino acid	NH_2	Br	NH_2
H	amino acid	NH_2	Br	NH-cyclopropyl
H	amino acid	NH_2	Br	NH-methyl
H	amino acid	NH_2	Br	NH-ethyl
H	amino acid	NH_2	Br	NH-acetyl
H	amino acid	NH_2	Br	OH
H	amino acid	NH_2	Br	OMe
H	amino acid	NH_2	Br	OEt
H	amino acid	NH_2	Br	O-cyclopropyl
H	amino acid	NH_2	Br	O-acetyl
H	amino acid	NH_2	Br	SH
H	amino acid	NH_2	Br	SMe
H	amino acid	NH_2	Br	SEt
H	amino acid	NH_2	Br	S-cyclopropyl
H	amino acid	NH_2	Br	F
H	amino acid	NH_2	Br	Cl
H	amino acid	NH_2	Br	Br
H	amino acid	NH_2	Br	I
amino acid	amino acid	NH_2	Br	H
amino acid	amino acid	NH_2	Br	NH_2
amino acid	amino acid	NH_2	Br	NH-cyclopropyl
amino acid	amino acid	NH_2	Br	NH-methyl
amino acid	amino acid	NH_2	Br	NH-ethyl
amino acid	amino acid	NH_2	Br	NH-acetyl
amino acid	amino acid	NH_2	Br	OH
amino acid	amino acid	NH_2	Br	OMe
amino acid	amino acid	NH_2	Br	OEt
amino acid	amino acid	NH_2	Br	O-cyclopropyl
amino acid	amino acid	NH_2	Br	O-acetyl
amino acid	amino acid	NH_2	Br	SH
amino acid	amino acid	NH_2	Br	SMe
amino acid	amino acid	NH_2	Br	SEt
amino acid	amino acid	NH_2	Br	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Br	F
amino acid	amino acid	NH_2	Br	Cl
amino acid	amino acid	NH_2	Br	Br
amino acid	amino acid	NH_2	Br	I
amino acid	H	NH_2	Br	H
amino acid	H	NH_2	Br	NH_2
amino acid	H	NH_2	Br	NH-cyclopropyl
amino acid	H	NH_2	Br	NH-methyl
amino acid	H	NH_2	Br	NH-ethyl
amino acid	H	NH_2	Br	NH-acetyl
amino acid	H	NH_2	Br	OH
amino acid	H	NH_2	Br	OMe
amino acid	H	NH_2	Br	OEt
amino acid	H	NH_2	Br	O-cyclopropyl
amino acid	H	NH_2	Br	O-acetyl
amino acid	H	NH_2	Br	SH
amino acid	H	NH_2	Br	SMe
amino acid	H	NH_2	Br	SEt
amino acid	H	NH_2	Br	S-cyclopropyl
amino acid	H	NH_2	Br	F
amino acid	H	NH_2	Br	Cl
amino acid	H	NH_2	Br	Br
amino acid	H	NH_2	Br	I
amino acid	acyl	NH_2	Br	H
amino acid	acyl	NH_2	Br	NH_2
amino acid	acyl	NH_2	Br	NH-cyclopropyl
amino acid	acyl	NH_2	Br	NH-methyl
amino acid	acyl	NH_2	Br	NH-ethyl
amino acid	acyl	NH_2	Br	NH-acetyl
amino acid	acyl	NH_2	Br	OH
amino acid	acyl	NH_2	Br	OMe
amino acid	acyl	NH_2	Br	OEt
amino acid	acyl	NH_2	Br	O-cyclopropyl
amino acid	acyl	NH_2	Br	O-acetyl
amino acid	acyl	NH_2	Br	SH
amino acid	acyl	NH_2	Br	SMe
amino acid	acyl	NH_2	Br	SEt
amino acid	acyl	NH_2	Br	S-cyclopropyl
amino acid	acyl	NH_2	Br	F
amino acid	acyl	NH_2	Br	Cl
amino acid	acyl	NH_2	Br	Br
amino acid	acyl	NH_2	Br	I
acyl	H	NH_2	Cl	H
acyl	H	NH_2	Cl	NH_2
acyl	H	NH_2	Cl	NH-cyclopropyl
acyl	H	NH_2	Cl	NH-methyl
acyl	H	NH_2	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Cl	NH-acetyl
acyl	H	NH_2	Cl	OH
acyl	H	NH_2	Cl	OMe
acyl	H	NH_2	Cl	OEt
acyl	H	NH_2	Cl	O-cyclopropyl
acyl	H	NH_2	Cl	O-acetyl
acyl	H	NH_2	Cl	SH
acyl	H	NH_2	Cl	SMe
acyl	H	NH_2	Cl	SEt
acyl	H	NH_2	Cl	S-cyclopropyl
acyl	H	NH_2	Cl	F
acyl	H	NH_2	Cl	Cl
acyl	H	NH_2	Cl	Br
acyl	H	NH_2	Cl	I
acyl	acyl	NH_2	Cl	H
acyl	acyl	NH_2	Cl	NH_2
acyl	acyl	NH_2	Cl	NH-cyclopropyl
acyl	acyl	NH_2	Cl	NH-methyl
acyl	acyl	NH_2	Cl	NH-ethyl
acyl	acyl	NH_2	Cl	NH-acetyl
acyl	acyl	NH_2	Cl	OH
acyl	acyl	NH_2	Cl	OMe
acyl	acyl	NH_2	Cl	OEt
acyl	acyl	NH_2	Cl	O-cyclopropyl
acyl	acyl	NH_2	Cl	O-acetyl
acyl	acyl	NH_2	Cl	SH
acyl	acyl	NH_2	Cl	SMe
acyl	acyl	NH_2	Cl	SEt
acyl	acyl	NH_2	Cl	S-cyclopropyl
acyl	acyl	NH_2	Cl	F
acyl	acyl	NH_2	Cl	Cl
acyl	acyl	NH_2	Cl	Br
acyl	acyl	NH_2	Cl	I
acyl	amino acid	NH_2	Cl	H
acyl	amino acid	NH_2	Cl	NH_2
acyl	amino acid	NH_2	Cl	NH-cyclopropyl
acyl	amino acid	NH_2	Cl	NH-methyl
acyl	amino acid	NH_2	Cl	NH-ethyl
acyl	amino acid	NH_2	Cl	NH-acetyl
acyl	amino acid	NH_2	Cl	OH
acyl	amino acid	NH_2	Cl	OMe
acyl	amino acid	NH_2	Cl	OEt
acyl	amino acid	NH_2	Cl	O-cyclopropyl
acyl	amino acid	NH_2	Cl	O-acetyl
acyl	amino acid	NH_2	Cl	SH
acyl	amino acid	NH_2	Cl	SMe
acyl	amino acid	NH_2	Cl	SEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	Cl	S-cyclopropyl
acyl	amino acid	NH_2	Cl	F
acyl	amino acid	NH_2	Cl	Cl
acyl	amino acid	NH_2	Cl	Br
acyl	amino acid	NH_2	Cl	I
H	acyl	NH_2	Cl	H
H	acyl	NH_2	Cl	NH_2
H	acyl	NH_2	Cl	NH-cyclopropyl
H	acyl	NH_2	Cl	NH-methyl
H	acyl	NH_2	Cl	NH-ethyl
H	acyl	NH_2	Cl	NH-acetyl
H	acyl	NH_2	Cl	OH
H	acyl	NH_2	Cl	OMe
H	acyl	NH_2	Cl	OEt
H	acyl	NH_2	Cl	O-cyclopropyl
H	acyl	NH_2	Cl	O-acetyl
H	acyl	NH_2	Cl	SH
H	acyl	NH_2	Cl	SMe
H	acyl	NH_2	Cl	SEt
H	acyl	NH_2	Cl	S-cyclopropyl
H	acyl	NH_2	Cl	F
H	acyl	NH_2	Cl	Cl
H	acyl	NH_2	Cl	Br
H	acyl	NH_2	Cl	I
H	amino acid	NH_2	Cl	H
H	amino acid	NH_2	Cl	NH_2
H	amino acid	NH_2	Cl	NH-cyclopropyl
H	amino acid	NH_2	Cl	NH-methyl
H	amino acid	NH_2	Cl	NH-ethyl
H	amino acid	NH_2	Cl	NH-acetyl
H	amino acid	NH_2	Cl	OH
H	amino acid	NH_2	Cl	OMe
H	amino acid	NH_2	Cl	OEt
H	amino acid	NH_2	Cl	O-cyclopropyl
H	amino acid	NH_2	Cl	O-acetyl
H	amino acid	NH_2	Cl	SH
H	amino acid	NH_2	Cl	SMe
H	amino acid	NH_2	Cl	SEt
H	amino acid	NH_2	Cl	S-cyclopropyl
H	amino acid	NH_2	Cl	F
H	amino acid	NH_2	Cl	Cl
H	amino acid	NH_2	Cl	Br
H	amino acid	NH_2	Cl	I
amino acid	amino acid	NH_2	Cl	H
amino acid	amino acid	NH_2	Cl	NH_2
amino acid	amino acid	NH_2	Cl	NH-cyclopropyl
amino acid	amino acid	NH_2	Cl	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Cl	NH-ethyl
amino acid	amino acid	NH_2	Cl	NH-acetyl
amino acid	amino acid	NH_2	Cl	OH
amino acid	amino acid	NH_2	Cl	OMe
amino acid	amino acid	NH_2	Cl	OEt
amino acid	amino acid	NH_2	Cl	O-cyclopropyl
amino acid	amino acid	NH_2	Cl	O-acetyl
amino acid	amino acid	NH_2	Cl	SH
amino acid	amino acid	NH_2	Cl	SMe
amino acid	amino acid	NH_2	Cl	SEt
amino acid	amino acid	NH_2	Cl	S-cyclopropyl
amino acid	amino acid	NH_2	Cl	F
amino acid	amino acid	NH_2	Cl	Cl
amino acid	amino acid	NH_2	Cl	Br
amino acid	amino acid	NH_2	Cl	I
amino acid	H	NH_2	Cl	H
amino acid	H	NH_2	Cl	NH_2
amino acid	H	NH_2	Cl	NH-cyclopropyl
amino acid	H	NH_2	Cl	NH-methyl
amino acid	H	NH_2	Cl	NH-ethyl
amino acid	H	NH_2	Cl	NH-acetyl
amino acid	H	NH_2	Cl	OH
amino acid	H	NH_2	Cl	OMe
amino acid	H	NH_2	Cl	OEt
amino acid	H	NH_2	Cl	O-cyclopropyl
amino acid	H	NH_2	Cl	O-acetyl
amino acid	H	NH_2	Cl	SH
amino acid	H	NH_2	Cl	SMe
amino acid	H	NH_2	Cl	SEt
amino acid	H	NH_2	Cl	S-cyclopropyl
amino acid	H	NH_2	Cl	F
amino acid	H	NH_2	Cl	Cl
amino acid	H	NH_2	Cl	Br
amino acid	H	NH_2	Cl	I
amino acid	acyl	NH_2	Cl	H
amino acid	acyl	NH_2	Cl	NH_2
amino acid	acyl	NH_2	Cl	NH-cyclopropyl
amino acid	acyl	NH_2	Cl	NH-methyl
amino acid	acyl	NH_2	Cl	NH-ethyl
amino acid	acyl	NH_2	Cl	NH-acetyl
amino acid	acyl	NH_2	Cl	OH
amino acid	acyl	NH_2	Cl	OMe
amino acid	acyl	NH_2	Cl	OEt
amino acid	acyl	NH_2	Cl	O-cyclopropyl
amino acid	acyl	NH_2	Cl	O-acetyl
amino acid	acyl	NH_2	Cl	SH
amino acid	acyl	NH_2	Cl	SMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	Cl	SEt
amino acid	acyl	NH_2	Cl	S-cyclopropyl
amino acid	acyl	NH_2	Cl	F
amino acid	acyl	NH_2	Cl	Cl
amino acid	acyl	NH_2	Cl	Br
amino acid	acyl	NH_2	Cl	I
acyl	H	NH_2	SH	H
acyl	H	NH_2	SH	NH_2
acyl	H	NH_2	SH	NH-cyclopropyl
acyl	H	NH_2	SH	NH-methyl
acyl	H	NH_2	SH	NH-ethyl
acyl	H	NH_2	SH	NH-acetyl
acyl	H	NH_2	SH	OH
acyl	H	NH_2	SH	OMe
acyl	H	NH_2	SH	OEt
acyl	H	NH_2	SH	O-cyclopropyl
acyl	H	NH_2	SH	O-acetyl
acyl	H	NH_2	SH	SH
acyl	H	NH_2	SH	SMe
acyl	H	NH_2	SH	SEt
acyl	H	NH_2	SH	S-cyclopropyl
acyl	H	NH_2	SH	F
acyl	H	NH_2	SH	Cl
acyl	H	NH_2	SH	Br
acyl	H	NH_2	SH	I
acyl	acyl	NH_2	SH	H
acyl	acyl	NH_2	SH	NH_2
acyl	acyl	NH_2	SH	NH-cyclopropyl
acyl	acyl	NH_2	SH	NH-methyl
acyl	acyl	NH_2	SH	NH-ethyl
acyl	acyl	NH_2	SH	NH-acetyl
acyl	acyl	NH_2	SH	OH
acyl	acyl	NH_2	SH	OMe
acyl	acyl	NH_2	SH	OEt
acyl	acyl	NH_2	SH	O-cyclopropyl
acyl	acyl	NH_2	SH	O-acetyl
acyl	acyl	NH_2	SH	SH
acyl	acyl	NH_2	SH	SMe
acyl	acyl	NH_2	SH	SEt
acyl	acyl	NH_2	SH	S-cyclopropyl
acyl	acyl	NH_2	SH	F
acyl	acyl	NH_2	SH	Cl
acyl	acyl	NH_2	SH	Br
acyl	acyl	NH_2	SH	I
acyl	amino acid	NH_2	SH	H
acyl	amino acid	NH_2	SH	NH_2
acyl	amino acid	NH_2	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	SH	NH-methyl
acyl	amino acid	NH_2	SH	NH-ethyl
acyl	amino acid	NH_2	SH	NH-acetyl
acyl	amino acid	NH_2	SH	OH
acyl	amino acid	NH_2	SH	OMe
acyl	amino acid	NH_2	SH	OEt
acyl	amino acid	NH_2	SH	O-cyclopropyl
acyl	amino acid	NH_2	SH	O-acetyl
acyl	amino acid	NH_2	SH	SH
acyl	amino acid	NH_2	SH	SMe
acyl	amino acid	NH_2	SH	SEt
acyl	amino acid	NH_2	SH	S-cyclopropyl
acyl	amino acid	NH_2	SH	F
acyl	amino acid	NH_2	SH	Cl
acyl	amino acid	NH_2	SH	Br
acyl	amino acid	NH_2	SH	I
H	acyl	NH_2	SH	H
H	acyl	NH_2	SH	NH_2
H	acyl	NH_2	SH	NH-cyclopropyl
H	acyl	NH_2	SH	NH-methyl
H	acyl	NH_2	SH	NH-ethyl
H	acyl	NH_2	SH	NH-acetyl
H	acyl	NH_2	SH	OH
H	acyl	NH_2	SH	OMe
H	acyl	NH_2	SH	OEt
H	acyl	NH_2	SH	O-cyclopropyl
H	acyl	NH_2	SH	O-acetyl
H	acyl	NH_2	SH	SH
H	acyl	NH_2	SH	SMe
H	acyl	NH_2	SH	SEt
H	acyl	NH_2	SH	S-cyclopropyl
H	acyl	NH_2	SH	F
H	acyl	NH_2	SH	Cl
H	acyl	NH_2	SH	Br
H	acyl	NH_2	SH	I
H	amino acid	NH_2	SH	H
H	amino acid	NH_2	SH	NH_2
H	amino acid	NH_2	SH	NH-cyclopropyl
H	amino acid	NH_2	SH	NH-methyl
H	amino acid	NH_2	SH	NH-ethyl
H	amino acid	NH_2	SH	NH-acetyl
H	amino acid	NH_2	SH	OH
H	amino acid	NH_2	SH	OMe
H	amino acid	NH_2	SH	OEt
H	amino acid	NH_2	SH	O-cyclopropyl
H	amino acid	NH_2	SH	O-acetyl
H	amino acid	NH_2	SH	SH

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	SH	SMe
H	amino acid	NH_2	SH	SEt
H	amino acid	NH_2	SH	S-cyclopropyl
H	amino acid	NH_2	SH	F
H	amino acid	NH_2	SH	Cl
H	amino acid	NH_2	SH	Br
H	amino acid	NH_2	SH	I
amino acid	amino acid	NH_2	SH	H
amino acid	amino acid	NH_2	SH	NH_2
amino acid	amino acid	NH_2	SH	NH-cyclopropyl
amino acid	amino acid	NH_2	SH	NH-methyl
amino acid	amino acid	NH_2	SH	NH-ethyl
amino acid	amino acid	NH_2	SH	NH-acetyl
amino acid	amino acid	NH_2	SH	OH
amino acid	amino acid	NH_2	SH	OMe
amino acid	amino acid	NH_2	SH	OEt
amino acid	amino acid	NH_2	SH	O-cyclopropyl
amino acid	amino acid	NH_2	SH	O-acetyl
amino acid	amino acid	NH_2	SH	SH
amino acid	amino acid	NH_2	SH	SMe
amino acid	amino acid	NH_2	SH	SEt
amino acid	amino acid	NH_2	SH	S-cyclopropyl
amino acid	amino acid	NH_2	SH	F
amino acid	amino acid	NH_2	SH	Cl
amino acid	amino acid	NH_2	SH	Br
amino acid	amino acid	NH_2	SH	I
amino acid	H	NH_2	SH	H
amino acid	H	NH_2	SH	NH_2
amino acid	H	NH_2	SH	NH-cyclopropyl
amino acid	H	NH_2	SH	NH-methyl
amino acid	H	NH_2	SH	NH-ethyl
amino acid	H	NH_2	SH	NH-acetyl
amino acid	H	NH_2	SH	OH
amino acid	H	NH_2	SH	OMe
amino acid	H	NH_2	SH	OEt
amino acid	H	NH_2	SH	O-cyclopropyl
amino acid	H	NH_2	SH	O-acetyl
amino acid	H	NH_2	SH	SH
amino acid	H	NH_2	SH	SMe
amino acid	H	NH_2	SH	SEt
amino acid	H	NH_2	SH	S-cyclopropyl
amino acid	H	NH_2	SH	F
amino acid	H	NH_2	SH	Cl
amino acid	H	NH_2	SH	Br
amino acid	H	NH_2	SH	I
amino acid	acyl	NH_2	SH	H
amino acid	acyl	NH_2	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	SH	NH-cyclopropyl
amino acid	acyl	NH_2	SH	NH-methyl
amino acid	acyl	NH_2	SH	NH-ethyl
amino acid	acyl	NH_2	SH	NH-acetyl
amino acid	acyl	NH_2	SH	OH
amino acid	acyl	NH_2	SH	OMe
amino acid	acyl	NH_2	SH	OEt
amino acid	acyl	NH_2	SH	O-cyclopropyl
amino acid	acyl	NH_2	SH	O-acetyl
amino acid	acyl	NH_2	SH	SH
amino acid	acyl	NH_2	SH	SMe
amino acid	acyl	NH_2	SH	SEt
amino acid	acyl	NH_2	SH	S-cyclopropyl
amino acid	acyl	NH_2	SH	F
amino acid	acyl	NH_2	SH	Cl
amino acid	acyl	NH_2	SH	Br
amino acid	acyl	NH_2	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H

R^2	R^3	X^1	X^2	Y
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	F	Br	H
acyl	H	F	Br	NH_2
acyl	H	F	Br	NH-cyclopropyl
acyl	H	F	Br	NH-methyl
acyl	H	F	Br	NH-ethyl
acyl	H	F	Br	NH-acetyl
acyl	H	F	Br	OH
acyl	H	F	Br	OMe
acyl	H	F	Br	OEt
acyl	H	F	Br	O-cyclopropyl
acyl	H	F	Br	O-acetyl
acyl	H	F	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br
acyl	H	F	Br	I

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	Br	H
acyl	acyl	F	Br	NH_2
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	F	Br	Br
acyl	acyl	F	Br	I
acyl	amino acid	F	Br	H
acyl	amino acid	F	Br	NH_2
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	NH-ethyl
acyl	amino acid	F	Br	NH-acetyl
acyl	amino acid	F	Br	OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt
acyl	amino acid	F	Br	O-cyclopropyl
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	H
H	acyl	F	Br	NH_2
H	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
H	acyl	F	Br	OEt

R^2	R^3	X^1	X^2	Y
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
H	acyl	F	Br	F
H	acyl	F	Br	Cl
H	acyl	F	Br	Br
H	acyl	F	Br	I
H	amino acid	F	Br	H
H	amino acid	F	Br	NH_2
H	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
H	amino acid	F	Br	OEt
H	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH
H	amino acid	F	Br	SMe
H	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F
H	amino acid	F	Br	Cl
H	amino acid	F	Br	Br
H	amino acid	F	Br	I
amino acid	amino acid	F	Br	H
amino acid	amino acid	F	Br	NH_2
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	OH
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F
amino acid	amino acid	F	Br	Cl
amino acid	amino acid	F	Br	Br

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	Br	I
amino acid	H	F	Br	H
amino acid	H	F	Br	NH_2
amino acid	H	F	Br	NH-cyclopropyl
amino acid	H	F	Br	NH-methyl
amino acid	H	F	Br	NH-ethyl
amino acid	H	F	Br	NH-acetyl
amino acid	H	F	Br	OH
amino acid	H	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	H	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	H	F	Br	SEt
amino acid	H	F	Br	S-cyclopropyl
amino acid	H	F	Br	F
amino acid	H	F	Br	Cl
amino acid	H	F	Br	Br
amino acid	H	F	Br	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH_2
amino acid	acyl	F	Br	NH-cyclopropyl
amino acid	acyl	F	Br	NH-methyl
amino acid	acyl	F	Br	NH-ethyl
amino acid	acyl	F	Br	NH-acetyl
amino acid	acyl	F	Br	OH
amino acid	acyl	F	Br	OMe
amino acid	acyl	F	Br	OEt
amino acid	acyl	F	Br	O-cyclopropyl
amino acid	acyl	F	Br	O-acetyl
amino acid	acyl	F	Br	SH
amino acid	acyl	F	Br	SMe
amino acid	acyl	F	Br	SEt
amino acid	acyl	F	Br	S-cyclopropyl
amino acid	acyl	F	Br	F
amino acid	acyl	F	Br	Cl
amino acid	acyl	F	Br	Br
amino acid	acyl	F	Br	I
acyl	H	Br	F	H
acyl	H	Br	F	NH_2
acyl	H	Br	F	NH-cyclopropyl
acyl	H	Br	F	NH-methyl
acyl	H	Br	F	NH-ethyl
acyl	H	Br	F	NH-acetyl
acyl	H	Br	F	OH
acyl	H	Br	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	H	Br	F	OEt
acyl	H	Br	F	O-cyclopropyl
acyl	H	Br	F	O-acetyl
acyl	H	Br	F	SH
acyl	H	Br	F	SMe
acyl	H	Br	F	SEt
acyl	H	Br	F	S-cyclopropyl
acyl	H	Br	F	F
acyl	H	Br	F	Cl
acyl	H	Br	F	Br
acyl	H	Br	F	I
acyl	acyl	Br	F	H
acyl	acyl	Br	F	NH_2
acyl	acyl	Br	F	NH-cyclopropyl
acyl	acyl	Br	F	NH-methyl
acyl	acyl	Br	F	NH-ethyl
acyl	acyl	Br	F	NH-acetyl
acyl	acyl	Br	F	OH
acyl	acyl	Br	F	OMe
acyl	acyl	Br	F	OEt
acyl	acyl	Br	F	O-cyclopropyl
acyl	acyl	Br	F	O-acetyl
acyl	acyl	Br	F	SH
acyl	acyl	Br	F	SMe
acyl	acyl	Br	F	SEt
acyl	acyl	Br	F	S-cyclopropyl
acyl	acyl	Br	F	F
acyl	acyl	Br	F	Cl
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	H
acyl	amino acid	Br	F	NH_2
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F
acyl	amino acid	Br	F	Cl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	F	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
H	acyl	Br	F	NH_2
H	acyl	Br	F	NH-cyclopropyl
H	acyl	Br	F	NH-methyl
H	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
H	acyl	Br	F	OH
H	acyl	Br	F	OMe
H	acyl	Br	F	OEt
H	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
H	acyl	Br	F	SMe
H	acyl	Br	F	SEt
H	acyl	Br	F	S-cyclopropyl
H	acyl	Br	F	F
H	acyl	Br	F	Cl
H	acyl	Br	F	Br
H	acyl	Br	F	I
H	amino acid	Br	F	H
H	amino acid	Br	F	NH_2
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid	Br	F	NH-ethyl
H	amino acid	Br	F	NH-acetyl
H	amino acid	Br	F	OH
H	amino acid	Br	F	OMe
H	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
H	amino acid	Br	F	O-acetyl
H	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
H	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
H	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH_2
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH_2
amino acid	H	Br	F	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	O-cyclopropyl
amino acid	H	Br	F	O-acetyl
amino acid	H	Br	F	SH
amino acid	H	Br	F	SMe
amino acid	H	Br	F	SEt
amino acid	H	Br	F	S-cyclopropyl
amino acid	H	Br	F	F
amino acid	H	Br	F	Cl
amino acid	H	Br	F	Br
amino acid	H	Br	F	I
amino acid	acyl	Br	F	H
amino acid	acyl	Br	F	NH_2
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	OH
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	F	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl
amino acid	acyl	Br	F	F

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	F	Cl
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	F	Cl	H
acyl	H	F	Cl	NH_2
acyl	H	F	Cl	NH-cyclopropyl
acyl	H	F	Cl	NH-methyl
acyl	H	F	Cl	NH-ethyl
acyl	H	F	Cl	NH-acetyl
acyl	H	F	Cl	OH
acyl	H	F	Cl	OMe
acyl	H	F	Cl	OEt
acyl	H	F	Cl	O-cyclopropyl
acyl	H	F	Cl	O-acetyl
acyl	H	F	Cl	SH
acyl	H	F	Cl	SMe
acyl	H	F	Cl	SEt
acyl	H	F	Cl	S-cyclopropyl
acyl	H	F	Cl	F
acyl	H	F	Cl	Cl
acyl	H	F	Cl	Br
acyl	H	F	Cl	I
acyl	acyl	F	Cl	H
acyl	acyl	F	Cl	NH_2
acyl	acyl	F	Cl	NH-cyclopropyl
acyl	acyl	F	Cl	NH-methyl
acyl	acyl	F	Cl	NH-ethyl
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	Cl	OH
acyl	acyl	F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	I
acyl	amino acid	F	Cl	H
acyl	amino acid	F	Cl	NH_2
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F	Cl	NH-methyl
acyl	amino acid	F	Cl	NH-ethyl
acyl	amino acid	F	Cl	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	Cl	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
acyl	amino acid	F	Cl	S-cyclopropyl
acyl	amino acid	F	Cl	F
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
H	acyl	F	Cl	H
H	acyl	F	Cl	NH_2
H	acyl	F	Cl	NH-cyclopropyl
H	acyl	F	Cl	NH-methyl
H	acyl	F	Cl	NH-ethyl
H	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	OH
H	acyl	F	Cl	OMe
H	acyl	F	Cl	OEt
H	acyl	F	Cl	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
H	acyl	F	Cl	SMe
H	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
H	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	H
H	amino acid	F	Cl	NH_2
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH_2
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	Cl	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	Cl	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	Cl	SH
amino acid	amino acid	F	Cl	SMe
amino acid	amino acid	F	Cl	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	Cl	I
amino acid	H	F	Cl	H
amino acid	H	F	Cl	NH_2
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	H	F	Cl	NH-ethyl
amino acid	H	F	Cl	NH-acetyl
amino acid	H	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	F	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	H	F	Cl	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	Cl	SEt
amino acid	H	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	H	F	Cl	Cl
amino acid	H	F	Cl	Br
amino acid	H	F	Cl	I
amino acid	acyl	F	Cl	H
amino acid	acyl	F	Cl	NH_2
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl
amino acid	acyl	F	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	F	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	F	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	Cl	O-cyclopropyl
amino acid	acyl	F	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
amino acid	acyl	F	Cl	S-cyclopropyl
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br
amino acid	acyl	F	Cl	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH_2
acyl	H	Cl	F	NH-cyclopropyl
acyl	H	Cl	F	NH-methyl
acyl	H	Cl	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	H	Cl	F	OH
acyl	H	Cl	F	OMe
acyl	H	Cl	F	OEt
acyl	H	Cl	F	O-cyclopropyl
acyl	H	Cl	F	O-acetyl
acyl	H	Cl	F	SH
acyl	H	Cl	F	SMe
acyl	H	Cl	F	SEt
acyl	H	Cl	F	S-cyclopropyl
acyl	H	Cl	F	F
acyl	H	Cl	F	Cl
acyl	H	Cl	F	Br
acyl	H	Cl	F	I
acyl	acyl	Cl	F	H
acyl	acyl	Cl	F	NH_2
acyl	acyl	Cl	F	NH-cyclopropyl
acyl	acyl	Cl	F	NH-methyl
acyl	acyl	Cl	F	NH-ethyl
acyl	acyl	Cl	F	NH-acetyl
acyl	acyl	Cl	F	OH
acyl	acyl	Cl	F	OMe
acyl	acyl	Cl	F	OEt
acyl	acyl	Cl	F	O-cyclopropyl
acyl	acyl	Cl	F	O-acetyl
acyl	acyl	Cl	F	SH
acyl	acyl	Cl	F	SMe
acyl	acyl	Cl	F	SEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	F	S-cyclopropyl
acyl	acyl	Cl	F	F
acyl	acyl	Cl	F	Cl
acyl	acyl	Cl	F	Br
acyl	acyl	Cl	F	I
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH_2
acyl	amino acid	Cl	F	NH-cyclopropyl
acyl	amino acid	Cl	F	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	F	OMe
acyl	amino acid	Cl	F	OEt
acyl	amino acid	Cl	F	O-cyclopropyl
acyl	amino acid	Cl	F	O-acetyl
acyl	amino acid	Cl	F	SH
acyl	amino acid	Cl	F	SMe
acyl	amino acid	Cl	F	SEt
acyl	amino acid	Cl	F	S-cyclopropyl
acyl	amino acid	Cl	F	F
acyl	amino acid	Cl	F	Cl
acyl	amino acid	Cl	F	Br
acyl	amino acid	Cl	F	I
H	acyl	Cl	F	H
H	acyl	Cl	F	NH_2
H	acyl	Cl	F	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
H	acyl	Cl	F	NH-ethyl
H	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
H	acyl	Cl	F	OMe
H	acyl	Cl	F	OEt
H	acyl	Cl	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
H	acyl	Cl	F	SEt
H	acyl	Cl	F	S-cyclopropyl
H	acyl	Cl	F	F
H	acyl	Cl	F	Cl
H	acyl	Cl	F	Br
H	acyl	Cl	F	I
H	amino acid	Cl	F	H
H	amino acid	Cl	F	NH_2
H	amino acid	Cl	F	NH-cyclopropyl
H	amino acid	Cl	F	NH-methyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	F	NH-ethyl
H	amino acid	Cl	F	NH-acetyl
H	amino acid	Cl	F	OH
H	amino acid	Cl	F	OMe
H	amino acid	Cl	F	OEt
H	amino acid	Cl	F	O-cyclopropyl
H	amino acid	Cl	F	O-acetyl
H	amino acid	Cl	F	SH
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
H	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	Cl	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH_2
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H
amino acid	H	Cl	F	NH_2
amino acid	H	Cl	F	NH-cyclopropyl
amino acid	H	Cl	F	NH-methyl
amino acid	H	Cl	F	NH-ethyl
amino acid	H	Cl	F	NH-acetyl
amino acid	H	Cl	F	OH
amino acid	H	Cl	F	OMe
amino acid	H	Cl	F	OEt
amino acid	H	Cl	F	O-cyclopropyl
amino acid	H	Cl	F	O-acetyl
amino acid	H	Cl	F	SH
amino acid	H	Cl	F	SMe

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	F	SEt
amino acid	H	Cl	F	S-cyclopropyl
amino acid	H	Cl	F	F
amino acid	H	Cl	F	Cl
amino acid	H	Cl	F	Br
amino acid	H	Cl	F	I
amino acid	acyl	Cl	F	H
amino acid	acyl	Cl	F	NH_2
amino acid	acyl	Cl	F	NH-cyclopropyl
amino acid	acyl	Cl	F	NH-methyl
amino acid	acyl	Cl	F	NH-ethyl
amino acid	acyl	Cl	F	NH-acetyl
amino acid	acyl	Cl	F	OH
amino acid	acyl	Cl	F	OMe
amino acid	acyl	Cl	F	OEt
amino acid	acyl	Cl	F	O-cyclopropyl
amino acid	acyl	Cl	F	O-acetyl
amino acid	acyl	Cl	F	SH
amino acid	acyl	Cl	F	SMe
amino acid	acyl	Cl	F	SEt
amino acid	acyl	Cl	F	S-cyclopropyl
amino acid	acyl	Cl	F	F
amino acid	acyl	Cl	F	Cl
amino acid	acyl	Cl	F	Br
amino acid	acyl	Cl	F	I
acyl	H	SH	H	H
acyl	H	SH	H	NH_2
acyl	H	SH	H	NH-cyclopropyl
acyl	H	SH	H	NH-methyl
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
acyl	H	SH	H	S-cyclopropyl
acyl	H	SH	H	F
acyl	H	SH	H	Cl
acyl	H	SH	H	Br
acyl	H	SH	H	I
acyl	acyl	SH	H	H
acyl	acyl	SH	H	NH_2
acyl	acyl	SH	H	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	H	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	H	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	H	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	H	F
acyl	acyl	SH	H	Cl
acyl	acyl	SH	H	Br
acyl	acyl	SH	H	I
acyl	amino acid	SH	H	H
acyl	amino acid	SH	H	NH_2
acyl	amino acid	SH	H	NH-cyclopropyl
acyl	amino acid	SH	H	NH-methyl
acyl	amino acid	SH	H	NH-ethyl
acyl	amino acid	SH	H	NH-acetyl
acyl	amino acid	SH	H	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	H	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	H	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	H	H
H	acyl	SH	H	NH_2
H	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	H	NH-methyl
H	acyl	SH	H	NH-ethyl
H	acyl	SH	H	NH-acetyl
H	acyl	SH	H	OH
H	acyl	SH	H	OMe
H	acyl	SH	H	OEt
H	acyl	SH	H	O-cyclopropyl
H	acyl	SH	H	O-acetyl
H	acyl	SH	H	SH

R^2	R^3	X^1	X^2	Y
H	acyl	SH	H	SMe
H	acyl	SH	H	SEt
H	acyl	SH	H	S-cyclopropyl
H	acyl	SH	H	F
H	acyl	SH	H	Cl
H	acyl	SH	H	Br
H	acyl	SH	H	I
H	amino acid	SH	H	H
H	amino acid	SH	H	NH_2
H	amino acid	SH	H	NH-cyclopropyl
H	amino acid	SH	H	NH-methyl
H	amino acid	SH	H	NH-ethyl
H	amino acid	SH	H	NH-acetyl
H	amino acid	SH	H	OH
H	amino acid	SH	H	OMe
H	amino acid	SH	H	OEt
H	amino acid	SH	H	O-cyclopropyl
H	amino acid	SH	H	O-acetyl
H	amino acid	SH	H	SH
H	amino acid	SH	H	SMe
H	amino acid	SH	H	SEt
H	amino acid	SH	H	S-cyclopropyl
H	amino acid	SH	H	F
H	amino acid	SH	H	Cl
H	amino acid	SH	H	Br
H	amino acid	SH	H	I
amino acid	amino acid	SH	H	H
amino acid	amino acid	SH	H	NH_2
amino acid	amino acid	SH	H	NH-cyclopropyl
amino acid	amino acid	SH	H	NH-methyl
amino acid	amino acid	SH	H	NH-ethyl
amino acid	amino acid	SH	H	NH-acetyl
amino acid	amino acid	SH	H	OH
amino acid	amino acid	SH	H	OMe
amino acid	amino acid	SH	H	OEt
amino acid	amino acid	SH	H	O-cyclopropyl
amino acid	amino acid	SH	H	O-acetyl
amino acid	amino acid	SH	H	SH
amino acid	amino acid	SH	H	SMe
amino acid	amino acid	SH	H	SEt
amino acid	amino acid	SH	H	S-cyclopropyl
amino acid	amino acid	SH	H	F
amino acid	amino acid	SH	H	Cl
amino acid	amino acid	SH	H	Br
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	H
amino acid	H	SH	H	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	H	NH-cyclopropyl
amino acid	H	SH	H	NH-methyl
amino acid	H	SH	H	NH-ethyl
amino acid	H	SH	H	NH-acetyl
amino acid	H	SH	H	OH
amino acid	H	SH	H	OMe
amino acid	H	SH	H	OEt
amino acid	H	SH	H	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	H	SH	H	SMe
amino acid	H	SH	H	SEt
amino acid	H	SH	H	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	H	SH	H	Cl
amino acid	H	SH	H	Br
amino acid	H	SH	H	I
amino acid	acyl	SH	H	H
amino acid	acyl	SH	H	NH_2
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	H	NH-methyl
amino acid	acyl	SH	H	NH-ethyl
amino acid	acyl	SH	H	NH-acetyl
amino acid	acyl	SH	H	OH
amino acid	acyl	SH	H	OMe
amino acid	acyl	SH	H	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	H	F
amino acid	acyl	SH	H	Cl
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	H	I
acyl	H	SH	F	H
acyl	H	SH	F	NH_2
acyl	H	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	H	SH	F	NH-ethyl
acyl	H	SH	F	NH-acetyl
acyl	H	SH	F	OH
acyl	H	SH	F	OMe
acyl	H	SH	F	OEt
acyl	H	SH	F	O-cyclopropyl
acyl	H	SH	F	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	SH	F	SH
acyl	H	SH	F	SMe
acyl	H	SH	F	SEt
acyl	H	SH	F	S-cyclopropyl
acyl	H	SH	F	F
acyl	H	SH	F	Cl
acyl	H	SH	F	Br
acyl	H	SH	F	I
acyl	acyl	SH	F	H
acyl	acyl	SH	F	NH_2
acyl	acyl	SH	F	NH-cyclopropyl
acyl	acyl	SH	F	NH-methyl
acyl	acyl	SH	F	NH-ethyl
acyl	acyl	SH	F	NH-acetyl
acyl	acyl	SH	F	OH
acyl	acyl	SH	F	OMe
acyl	acyl	SH	F	OEt
acyl	acyl	SH	F	O-cyclopropyl
acyl	acyl	SH	F	O-acetyl
acyl	acyl	SH	F	SH
acyl	acyl	SH	F	SMe
acyl	acyl	SH	F	SEt
acyl	acyl	SH	F	S-cyclopropyl
acyl	acyl	SH	F	F
acyl	acyl	SH	F	Cl
acyl	acyl	SH	F	Br
acyl	acyl	SH	F	I
acyl	amino acid	SH	F	H
acyl	amino acid	SH	F	NH_2
acyl	amino acid	SH	F	NH-cyclopropyl
acyl	amino acid	SH	F	NH-methyl
acyl	amino acid	SH	F	NH-ethyl
acyl	amino acid	SH	F	NH-acetyl
acyl	amino acid	SH	F	OH
acyl	amino acid	SH	F	OMe
acyl	amino acid	SH	F	OEt
acyl	amino acid	SH	F	O-cyclopropyl
acyl	amino acid	SH	F	O-acetyl
acyl	amino acid	SH	F	SH
acyl	amino acid	SH	F	SMe
acyl	amino acid	SH	F	SEt
acyl	amino acid	SH	F	S-cyclopropyl
acyl	amino acid	SH	F	F
acyl	amino acid	SH	F	Cl
acyl	amino acid	SH	F	Br
acyl	amino acid	SH	F	I
H	acyl	SH	F	H

R^2	R^3	X^1	X^2	Y
H	acyl	SH	F	NH_2
H	acyl	SH	F	NH-cyclopropyl
H	acyl	SH	F	NH-methyl
H	acyl	SH	F	NH-ethyl
H	acyl	SH	F	NH-acetyl
H	acyl	SH	F	OH
H	acyl	SH	F	OMe
H	acyl	SH	F	OEt
H	acyl	SH	F	O-cyclopropyl
H	acyl	SH	F	O-acetyl
H	acyl	SH	F	SH
H	acyl	SH	F	SMe
H	acyl	SH	F	SEt
H	acyl	SH	F	S-cyclopropyl
H	acyl	SH	F	F
H	acyl	SH	F	Cl
H	acyl	SH	F	Br
H	acyl	SH	F	I
H	amino acid	SH	F	H
H	amino acid	SH	F	NH_2
H	amino acid	SH	F	NH-cyclopropyl
H	amino acid	SH	F	NH-methyl
H	amino acid	SH	F	NH-ethyl
H	amino acid	SH	F	NH-acetyl
H	amino acid	SH	F	OH
H	amino acid	SH	F	OMe
H	amino acid	SH	F	OEt
H	amino acid	SH	F	O-cyclopropyl
H	amino acid	SH	F	O-acetyl
H	amino acid	SH	F	SH
H	amino acid	SH	F	SMe
H	amino acid	SH	F	SEt
H	amino acid	SH	F	S-cyclopropyl
H	amino acid	SH	F	F
H	amino acid	SH	F	Cl
H	amino acid	SH	F	Br
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH_2
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt
amino acid	amino acid	SH	F	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	H	SH	F	NH_2
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	H	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	OH
amino acid	H	SH	F	OMe
amino acid	H	SH	F	OEt
amino acid	H	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	H	SH	F	SH
amino acid	H	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	H	SH	F	S-cyclopropyl
amino acid	H	SH	F	F
amino acid	H	SH	F	Cl
amino acid	H	SH	F	Br
amino acid	H	SH	F	I
amino acid	acyl	SH	F	H
amino acid	acyl	SH	F	NH_2
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br
amino acid	acyl	SH	F	I

R^2	R^3	X^1	X^2	Y
acyl	H	SH	Cl	H
acyl	H	SH	Cl	NH_2
acyl	H	SH	Cl	NH-cyclopropyl
acyl	H	SH	Cl	NH-methyl
acyl	H	SH	Cl	NH-ethyl
acyl	H	SH	Cl	NH-acetyl
acyl	H	SH	Cl	OH
acyl	H	SH	Cl	OMe
acyl	H	SH	Cl	OEt
acyl	H	SH	Cl	O-cyclopropyl
acyl	H	SH	Cl	O-acetyl
acyl	H	SH	Cl	SH
acyl	H	SH	Cl	SMe
acyl	H	SH	Cl	SEt
acyl	H	SH	Cl	S-cyclopropyl
acyl	H	SH	Cl	F
acyl	H	SH	Cl	Cl
acyl	H	SH	Cl	Br
acyl	H	SH	Cl	I
acyl	acyl	SH	Cl	H
acyl	acyl	SH	Cl	NH_2
acyl	acyl	SH	Cl	NH-cyclopropyl
acyl	acyl	SH	Cl	NH-methyl
acyl	acyl	SH	Cl	NH-ethyl
acyl	acyl	SH	Cl	NH-acetyl
acyl	acyl	SH	Cl	OH
acyl	acyl	SH	Cl	OMe
acyl	acyl	SH	Cl	OEt
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl	acyl	SH	Cl	SH
acyl	acyl	SH	Cl	SMe
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	H
acyl	amino acid	SH	Cl	NH_2
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	OH
acyl	amino acid	SH	Cl	OMe
acyl	amino acid	SH	Cl	OEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	Cl
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
H	acyl	SH	Cl	H
H	acyl	SH	Cl	NH_2
H	acyl	SH	Cl	NH-cyclopropyl
H	acyl	SH	Cl	NH-methyl
H	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
H	acyl	SH	Cl	OH
H	acyl	SH	Cl	OMe
H	acyl	SH	Cl	OEt
H	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
H	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
H	acyl	SH	Cl	SEt
H	acyl	SH	Cl	S-cyclopropyl
H	acyl	SH	Cl	F
H	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
H	acyl	SH	Cl	I
H	amino acid	SH	Cl	H
H	amino acid	SH	Cl	NH_2
H	amino acid	SH	Cl	NH-cyclopropyl
H	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	Cl	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
H	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
H	amino acid	SH	Cl	Br

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH_2
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cl	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	Cl	Cl
amino acid	amino acid	SH	Cl	Br
amino acid	amino acid	SH	Cl	I
amino acid	H	SH	Cl	H
amino acid	H	SH	Cl	NH_2
amino acid	H	SH	Cl	NH-cyclopropyl
amino acid	H	SH	Cl	NH-methyl
amino acid	H	SH	Cl	NH-ethyl
amino acid	H	SH	Cl	NH-acetyl
amino acid	H	SH	Cl	OH
amino acid	H	SH	Cl	OMe
amino acid	H	SH	Cl	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl
amino acid	H	SH	Cl	SH
amino acid	H	SH	Cl	SMe
amino acid	H	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	H	SH	Cl	F
amino acid	H	SH	Cl	Cl
amino acid	H	SH	Cl	Br
amino acid	H	SH	Cl	I
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH_2
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	Cl	OH
amino acid	acyl	SH	Cl	OMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Cl	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	I
acyl	H	SH	Br	H
acyl	H	SH	Br	NH_2
acyl	H	SH	Br	NH-cyclopropyl
acyl	H	SH	Br	NH-methyl
acyl	H	SH	Br	NH-ethyl
acyl	H	SH	Br	NH-acetyl
acyl	H	SH	Br	OH
acyl	H	SH	Br	OMe
acyl	H	SH	Br	OEt
acyl	H	SH	Br	O-cyclopropyl
acyl	H	SH	Br	O-acetyl
acyl	H	SH	Br	SH
acyl	H	SH	Br	SMe
acyl	H	SH	Br	SEt
acyl	H	SH	Br	S-cyclopropyl
acyl	H	SH	Br	F
acyl	H	SH	Br	Cl
acyl	H	SH	Br	Br
acyl	H	SH	Br	I
acyl	acyl	SH	Br	H
acyl	acyl	SH	Br	NH_2
acyl	acyl	SH	Br	NH-cyclopropyl
acyl	acyl	SH	Br	NH-methyl
acyl	acyl	SH	Br	NH-ethyl
acyl	acyl	SH	Br	NH-acetyl
acyl	acyl	SH	Br	OH
acyl	acyl	SH	Br	OMe
acyl	acyl	SH	Br	OEt
acyl	acyl	SH	Br	O-cyclopropyl
acyl	acyl	SH	Br	O-acetyl
acyl	acyl	SH	Br	SH
acyl	acyl	SH	Br	SMe
acyl	acyl	SH	Br	SEt
acyl	acyl	SH	Br	S-cyclopropyl
acyl	acyl	SH	Br	F
acyl	acyl	SH	Br	Cl

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	Br	Br
acyl	acyl	SH	Br	I
acyl	amino acid	SH	Br	H
acyl	amino acid	SH	Br	NH_2
acyl	amino acid	SH	Br	NH-cyclopropyl
acyl	amino acid	SH	Br	NH-methyl
acyl	amino acid	SH	Br	NH-ethyl
acyl	amino acid	SH	Br	NH-acetyl
acyl	amino acid	SH	Br	OH
acyl	amino acid	SH	Br	OMe
acyl	amino acid	SH	Br	OEt
acyl	amino acid	SH	Br	O-cyclopropyl
acyl	amino acid	SH	Br	O-acetyl
acyl	amino acid	SH	Br	SH
acyl	amino acid	SH	Br	SMe
acyl	amino acid	SH	Br	SEt
acyl	amino acid	SH	Br	S-cyclopropyl
acyl	amino acid	SH	Br	F
acyl	amino acid	SH	Br	Cl
acyl	amino acid	SH	Br	Br
acyl	amino acid	SH	Br	I
H	acyl	SH	Br	H
H	acyl	SH	Br	NH_2
H	acyl	SH	Br	NH-cyclopropyl
H	acyl	SH	Br	NH-methyl
H	acyl	SH	Br	NH-ethyl
H	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	OH
H	acyl	SH	Br	OMe
H	acyl	SH	Br	OEt
H	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
H	acyl	SH	Br	SMe
H	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl
H	acyl	SH	Br	F
H	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	I
H	amino acid	SH	Br	H
H	amino acid	SH	Br	NH_2
H	amino acid	SH	Br	NH-cyclopropyl
H	amino acid	SH	Br	NH-methyl
H	amino acid	SH	Br	NH-ethyl
H	amino acid	SH	Br	NH-acetyl
H	amino acid	SH	Br	OH

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Br	OMe
H	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
H	amino acid	SH	Br	O-acetyl
H	amino acid	SH	Br	SH
H	amino acid	SH	Br	SMe
H	amino acid	SH	Br	SEt
H	amino acid	SH	Br	S-cyclopropyl
H	amino acid	SH	Br	F
H	amino acid	SH	Br	Cl
H	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	H
amino acid	amino acid	SH	Br	NH_2
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	O-acetyl
amino acid	amino acid	SH	Br	SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid	SH	Br	F
amino acid	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	H	SH	Br	H
amino acid	H	SH	Br	NH_2
amino acid	H	SH	Br	NH-cyclopropyl
amino acid	H	SH	Br	NH-methyl
amino acid	H	SH	Br	NH-ethyl
amino acid	H	SH	Br	NH-acetyl
amino acid	H	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	H	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	H	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	H	SH	Br	S-cyclopropyl
amino acid	H	SH	Br	F

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	Br	Cl
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	acyl	SH	Br	H
amino acid	acyl	SH	Br	NH_2
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH
amino acid	acyl	SH	Br	OMe
amino acid	acyl	SH	Br	OEt
amino acid	acyl	SH	Br	O-cyclopropyl
amino acid	acyl	SH	Br	O-acetyl
amino acid	acyl	SH	Br	SH
amino acid	acyl	SH	Br	SMe
amino acid	acyl	SH	Br	SEt
amino acid	acyl	SH	Br	S-cyclopropyl
amino acid	acyl	SH	Br	F
amino acid	acyl	SH	Br	Cl
amino acid	acyl	SH	Br	Br
amino acid	acyl	SH	Br	I
acyl	H	H	SH	H
acyl	H	H	SH	NH_2
acyl	H	H	SH	NH-cyclopropyl
acyl	H	H	SH	NH-methyl
acyl	H	H	SH	NH-ethyl
acyl	H	H	SH	NH-acetyl
acyl	H	H	SH	OH
acyl	H	H	SH	OMe
acyl	H	H	SH	OEt
acyl	H	H	SH	O-cyclopropyl
acyl	H	H	SH	O-acetyl
acyl	H	H	SH	SH
acyl	H	H	SH	SMe
acyl	H	H	SH	SEt
acyl	H	H	SH	S-cyclopropyl
acyl	H	H	SH	F
acyl	H	H	SH	Cl
acyl	H	H	SH	Br
acyl	H	H	SH	I
acyl	acyl	H	SH	H
acyl	acyl	H	SH	NH_2
acyl	acyl	H	SH	NH-cyclopropyl
acyl	acyl	H	SH	NH-methyl
acyl	acyl	H	SH	NH-ethyl
acyl	acyl	H	SH	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	SH	OH
acyl	acyl	H	SH	OMe
acyl	acyl	H	SH	OEt
acyl	acyl	H	SH	O-cyclopropyl
acyl	acyl	H	SH	O-acetyl
acyl	acyl	H	SH	SH
acyl	acyl	H	SH	SMe
acyl	acyl	H	SH	SEt
acyl	acyl	H	SH	S-cyclopropyl
acyl	acyl	H	SH	F
acyl	acyl	H	SH	Cl
acyl	acyl	H	SH	Br
acyl	acyl	H	SH	I
acyl	amino acid	H	SH	H
acyl	amino acid	H	SH	NH_2
acyl	amino acid	H	SH	NH-cyclopropyl
acyl	amino acid	H	SH	NH-methyl
acyl	amino acid	H	SH	NH-ethyl
acyl	amino acid	H	SH	NH-acetyl
acyl	amino acid	H	SH	OH
acyl	amino acid	H	SH	OMe
acyl	amino acid	H	SH	OEt
acyl	amino acid	H	SH	O-cyclopropyl
acyl	amino acid	H	SH	O-acetyl
acyl	amino acid	H	SH	SH
acyl	amino acid	H	SH	SMe
acyl	amino acid	H	SH	SEt
acyl	amino acid	H	SH	S-cyclopropyl
acyl	amino acid	H	SH	F
acyl	amino acid	H	SH	Cl
acyl	amino acid	H	SH	Br
acyl	amino acid	H	SH	I
H	acyl	H	SH	H
H	acyl	H	SH	NH_2
H	acyl	H	SH	NH-cyclopropyl
H	acyl	H	SH	NH-methyl
H	acyl	H	SH	NH-ethyl
H	acyl	H	SH	NH-acetyl
H	acyl	H	SH	OH
H	acyl	H	SH	OMe
H	acyl	H	SH	OEt
H	acyl	H	SH	O-cyclopropyl
H	acyl	H	SH	O-acetyl
H	acyl	H	SH	SH
H	acyl	H	SH	SMe
H	acyl	H	SH	SEt
H	acyl	H	SH	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	H	SH	F
H	acyl	H	SH	Cl
H	acyl	H	SH	Br
H	acyl	H	SH	I
H	amino acid	H	SH	H
H	amino acid	H	SH	NH_2
H	amino acid	H	SH	NH-cyclopropyl
H	amino acid	H	SH	NH-methyl
H	amino acid	H	SH	NH-ethyl
H	amino acid	H	SH	NH-acetyl
H	amino acid	H	SH	OH
H	amino acid	H	SH	OMe
H	amino acid	H	SH	OEt
H	amino acid	H	SH	O-cyclopropyl
H	amino acid	H	SH	O-acetyl
H	amino acid	H	SH	SH
H	amino acid	H	SH	SMe
H	amino acid	H	SH	SEt
H	amino acid	H	SH	S-cyclopropyl
H	amino acid	H	SH	F
H	amino acid	H	SH	Cl
H	amino acid	H	SH	Br
H	amino acid	H	SH	I
amino acid	amino acid	H	SH	H
amino acid	amino acid	H	SH	NH_2
amino acid	amino acid	H	SH	NH-cyclopropyl
amino acid	amino acid	H	SH	NH-methyl
amino acid	amino acid	H	SH	NH-ethyl
amino acid	amino acid	H	SH	NH-acetyl
amino acid	amino acid	H	SH	OH
amino acid	amino acid	H	SH	OMe
amino acid	amino acid	H	SH	OEt
amino acid	amino acid	H	SH	O-cyclopropyl
amino acid	amino acid	H	SH	O-acetyl
amino acid	amino acid	H	SH	SH
amino acid	amino acid	H	SH	SMe
amino acid	amino acid	H	SH	SEt
amino acid	amino acid	H	SH	S-cyclopropyl
amino acid	amino acid	H	SH	F
amino acid	amino acid	H	SH	Cl
amino acid	amino acid	H	SH	Br
amino acid	amino acid	H	SH	I
amino acid	H	H	SH	H
amino acid	H	H	SH	NH_2
amino acid	H	H	SH	NH-cyclopropyl
amino acid	H	H	SH	NH-methyl
amino acid	H	H	SH	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	SH	NH-acetyl
amino acid	H	H	SH	OH
amino acid	H	H	SH	OMe
amino acid	H	H	SH	OEt
amino acid	H	H	SH	O-cyclopropyl
amino acid	H	H	SH	O-acetyl
amino acid	H	H	SH	SH
amino acid	H	H	SH	SMe
amino acid	H	H	SH	SEt
amino acid	H	H	SH	S-cyclopropyl
amino acid	H	H	SH	F
amino acid	H	H	SH	Cl
amino acid	H	H	SH	Br
amino acid	H	H	SH	I
amino acid	acyl	H	SH	H
amino acid	acyl	H	SH	NH_2
amino acid	acyl	H	SH	NH-cyclopropyl
amino acid	acyl	H	SH	NH-methyl
amino acid	acyl	H	SH	NH-ethyl
amino acid	acyl	H	SH	NH-acetyl
amino acid	acyl	H	SH	OH
amino acid	acyl	H	SH	OMe
amino acid	acyl	H	SH	OEt
amino acid	acyl	H	SH	O-cyclopropyl
amino acid	acyl	H	SH	O-acetyl
amino acid	acyl	H	SH	SH
amino acid	acyl	H	SH	SMe
amino acid	acyl	H	SH	SEt
amino acid	acyl	H	SH	S-cyclopropyl
amino acid	acyl	H	SH	F
amino acid	acyl	H	SH	Cl
amino acid	acyl	H	SH	Br
amino acid	acyl	H	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt

R^2	R^3	X^1	X^2	Y
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	Cl	SH	H
acyl	H	Cl	SH	NH_2
acyl	H	Cl	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	SH	NH-methyl
acyl	H	Cl	SH	NH-ethyl
acyl	H	Cl	SH	NH-acetyl
acyl	H	Cl	SH	OH
acyl	H	Cl	SH	OMe
acyl	H	Cl	SH	OEt
acyl	H	Cl	SH	O-cyclopropyl
acyl	H	Cl	SH	O-acetyl
acyl	H	Cl	SH	SH
acyl	H	Cl	SH	SMe
acyl	H	Cl	SH	SEt
acyl	H	Cl	SH	S-cyclopropyl
acyl	H	Cl	SH	F
acyl	H	Cl	SH	Cl
acyl	H	Cl	SH	Br
acyl	H	Cl	SH	I
acyl	acyl	Cl	SH	H
acyl	acyl	Cl	SH	NH_2
acyl	acyl	Cl	SH	NH-cyclopropyl
acyl	acyl	Cl	SH	NH-methyl
acyl	acyl	Cl	SH	NH-ethyl
acyl	acyl	Cl	SH	NH-acetyl
acyl	acyl	Cl	SH	OH
acyl	acyl	Cl	SH	OMe
acyl	acyl	Cl	SH	OEt
acyl	acyl	Cl	SH	O-cyclopropyl
acyl	acyl	Cl	SH	O-acetyl
acyl	acyl	Cl	SH	SH
acyl	acyl	Cl	SH	SMe
acyl	acyl	Cl	SH	SEt
acyl	acyl	Cl	SH	S-cyclopropyl
acyl	acyl	Cl	SH	F
acyl	acyl	Cl	SH	Cl
acyl	acyl	Cl	SH	Br
acyl	acyl	Cl	SH	I
acyl	amino acid	Cl	SH	H
acyl	amino acid	Cl	SH	NH_2
acyl	amino acid	Cl	SH	NH-cyclopropyl
acyl	amino acid	Cl	SH	NH-methyl
acyl	amino acid	Cl	SH	NH-ethyl
acyl	amino acid	Cl	SH	NH-acetyl
acyl	amino acid	Cl	SH	OH
acyl	amino acid	Cl	SH	OMe
acyl	amino acid	Cl	SH	OEt
acyl	amino acid	Cl	SH	O-cyclopropyl
acyl	amino acid	Cl	SH	O-acetyl
acyl	amino acid	Cl	SH	SH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Cl	SH	SMe
acyl	amino acid	Cl	SH	SEt
acyl	amino acid	Cl	SH	S-cyclopropyl
acyl	amino acid	Cl	SH	F
acyl	amino acid	Cl	SH	Cl
acyl	amino acid	Cl	SH	Br
acyl	amino acid	Cl	SH	I
H	acyl	Cl	SH	H
H	acyl	Cl	SH	NH_2
H	acyl	Cl	SH	NH-cyclopropyl
H	acyl	Cl	SH	NH-methyl
H	acyl	Cl	SH	NH-ethyl
H	acyl	Cl	SH	NH-acetyl
H	acyl	Cl	SH	OH
H	acyl	Cl	SH	OMe
H	acyl	Cl	SH	OEt
H	acyl	Cl	SH	O-cyclopropyl
H	acyl	Cl	SH	O-acetyl
H	acyl	Cl	SH	SH
H	acyl	Cl	SH	SMe
H	acyl	Cl	SH	SEt
H	acyl	Cl	SH	S-cyclopropyl
H	acyl	Cl	SH	F
H	acyl	Cl	SH	Cl
H	acyl	Cl	SH	Br
H	acyl	Cl	SH	I
H	amino acid	Cl	SH	H
H	amino acid	Cl	SH	NH_2
H	amino acid	Cl	SH	NH-cyclopropyl
H	amino acid	Cl	SH	NH-methyl
H	amino acid	Cl	SH	NH-ethyl
H	amino acid	Cl	SH	NH-acetyl
H	amino acid	Cl	SH	OH
H	amino acid	Cl	SH	OMe
H	amino acid	Cl	SH	OEt
H	amino acid	Cl	SH	O-cyclopropyl
H	amino acid	Cl	SH	O-acetyl
H	amino acid	Cl	SH	SH
H	amino acid	Cl	SH	SMe
H	amino acid	Cl	SH	SEt
H	amino acid	Cl	SH	S-cyclopropyl
H	amino acid	Cl	SH	F
H	amino acid	Cl	SH	Cl
H	amino acid	Cl	SH	Br
H	amino acid	Cl	SH	I
amino acid	amino acid	Cl	SH	H
amino acid	amino acid	Cl	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	SH	NH-cyclopropyl
amino acid	amino acid	Cl	SH	NH-methyl
amino acid	amino acid	Cl	SH	NH-ethyl
amino acid	amino acid	Cl	SH	NH-acetyl
amino acid	amino acid	Cl	SH	OH
amino acid	amino acid	Cl	SH	OMe
amino acid	amino acid	Cl	SH	OEt
amino acid	amino acid	Cl	SH	O-cyclopropyl
amino acid	amino acid	Cl	SH	O-acetyl
amino acid	amino acid	Cl	SH	SH
amino acid	amino acid	Cl	SH	SMe
amino acid	amino acid	Cl	SH	SEt
amino acid	amino acid	Cl	SH	S-cyclopropyl
amino acid	amino acid	Cl	SH	F
amino acid	amino acid	Cl	SH	Cl
amino acid	amino acid	Cl	SH	Br
amino acid	amino acid	Cl	SH	I
amino acid	H	Cl	SH	H
amino acid	H	Cl	SH	NH_2
amino acid	H	Cl	SH	NH-cyclopropyl
amino acid	H	Cl	SH	NH-methyl
amino acid	H	Cl	SH	NH-ethyl
amino acid	H	Cl	SH	NH-acetyl
amino acid	H	Cl	SH	OH
amino acid	H	Cl	SH	OMe
amino acid	H	Cl	SH	OEt
amino acid	H	Cl	SH	O-cyclopropyl
amino acid	H	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	H	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
amino acid	H	Cl	SH	F
amino acid	H	Cl	SH	Cl
amino acid	H	Cl	SH	Br
amino acid	H	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH_2
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	Cl	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl
amino acid	acyl	Cl	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Cl	SH	SH
amino acid	acyl	Cl	SH	SMe
amino acid	acyl	Cl	SH	SEt
amino acid	acyl	Cl	SH	S-cyclopropyl
amino acid	acyl	Cl	SH	F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH_2
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	H	Br	SH	OH
acyl	H	Br	SH	OMe
acyl	H	Br	SH	OEt
acyl	H	Br	SH	O-cyclopropyl
acyl	H	Br	SH	O-acetyl
acyl	H	Br	SH	SH
acyl	H	Br	SH	SMe
acyl	H	Br	SH	SEt
acyl	H	Br	SH	S-cyclopropyl
acyl	H	Br	SH	F
acyl	H	Br	SH	Cl
acyl	H	Br	SH	Br
acyl	H	Br	SH	I
acyl	acyl	Br	SH	H
acyl	acyl	Br	SH	NH_2
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I
acyl	amino acid	Br	SH	H

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	SH	NH_2
acyl	amino acid	Br	SH	NH-cyclopropyl
acyl	amino acid	Br	SH	NH-methyl
acyl	amino acid	Br	SH	NH-ethyl
acyl	amino acid	Br	SH	NH-acetyl
acyl	amino acid	Br	SH	OH
acyl	amino acid	Br	SH	OMe
acyl	amino acid	Br	SH	OEt
acyl	amino acid	Br	SH	O-cyclopropyl
acyl	amino acid	Br	SH	O-acetyl
acyl	amino acid	Br	SH	SH
acyl	amino acid	Br	SH	SMe
acyl	amino acid	Br	SH	SEt
acyl	amino acid	Br	SH	S-cyclopropyl
acyl	amino acid	Br	SH	F
acyl	amino acid	Br	SH	Cl
acyl	amino acid	Br	SH	Br
acyl	amino acid	Br	SH	I
H	acyl	Br	SH	H
H	acyl	Br	SH	NH_2
H	acyl	Br	SH	NH-cyclopropyl
H	acyl	Br	SH	NH-methyl
H	acyl	Br	SH	NH-ethyl
H	acyl	Br	SH	NH-acetyl
H	acyl	Br	SH	OH
H	acyl	Br	SH	OMe
H	acyl	Br	SH	OEt
H	acyl	Br	SH	O-cyclopropyl
H	acyl	Br	SH	O-acetyl
H	acyl	Br	SH	SH
H	acyl	Br	SH	SMe
H	acyl	Br	SH	SEt
H	acyl	Br	SH	S-cyclopropyl
H	acyl	Br	SH	F
H	acyl	Br	SH	Cl
H	acyl	Br	SH	Br
H	acyl	Br	SH	I
H	amino acid	Br	SH	H
H	amino acid	Br	SH	NH_2
H	amino acid	Br	SH	NH-cyclopropyl
H	amino acid	Br	SH	NH-methyl
H	amino acid	Br	SH	NH-ethyl
H	amino acid	Br	SH	NH-acetyl
H	amino acid	Br	SH	OH
H	amino acid	Br	SH	OMe
H	amino acid	Br	SH	OEt
H	amino acid	Br	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	SH	O-acetyl
H	amino acid	Br	SH	SH
H	amino acid	Br	SH	SMe
H	amino acid	Br	SH	SEt
H	amino acid	Br	SH	S-cyclopropyl
H	amino acid	Br	SH	F
H	amino acid	Br	SH	Cl
H	amino acid	Br	SH	Br
H	amino acid	Br	SH	I
amino acid	amino acid	Br	SH	H
amino acid	amino acid	Br	SH	NH_2
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	O-acetyl
amino acid	amino acid	Br	SH	SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	S-cyclopropyl
amino acid	amino acid	Br	SH	F
amino acid	amino acid	Br	SH	Cl
amino acid	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	H	Br	SH	NH_2
amino acid	H	Br	SH	NH-cyclopropyl
amino acid	H	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	H	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	H	Br	SH	OMe
amino acid	H	Br	SH	OEt
amino acid	H	Br	SH	O-cyclopropyl
amino acid	H	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	H	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	H	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	H	Br	SH	Br
amino acid	H	Br	SH	I

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	SH	H
amino acid	acyl	Br	SH	NH_2
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid	acyl	Br	SH	O-cyclopropyl
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt
amino acid	acyl	Br	SH	S-cyclopropyl
amino acid	acyl	Br	SH	F
amino acid	acyl	Br	SH	Cl
amino acid	acyl	Br	SH	Br
amino acid	acyl	Br	SH	I
acyl	H	F	F	H
acyl	H	F	F	NH_2
acyl	H	F	F	NH-cyclopropyl
acyl	H	F	F	NH-methyl
acyl	H	F	F	NH-ethyl
acyl	H	F	F	NH-acetyl
acyl	H	F	F	OH
acyl	H	F	F	OMe
acyl	H	F	F	OEt
acyl	H	F	F	O-cyclopropyl
acyl	H	F	F	O-acetyl
acyl	H	F	F	SH
acyl	H	F	F	SMe
acyl	H	F	F	SEt
acyl	H	F	F	S-cyclopropyl
acyl	H	F	F	F
acyl	H	F	F	Cl
acyl	H	F	F	Br
acyl	H	F	F	I
acyl	acyl	F	F	H
acyl	acyl	F	F	NH_2
acyl	acyl	F	F	NH-cyclopropyl
acyl	acyl	F	F	NH-methyl
acyl	acyl	F	F	NH-ethyl
acyl	acyl	F	F	NH-acetyl
acyl	acyl	F	F	OH
acyl	acyl	F	F	OMe
acyl	acyl	F	F	OEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	F	O-cyclopropyl
acyl	acyl	F	F	O-acetyl
acyl	acyl	F	F	SH
acyl	acyl	F	F	SMe
acyl	acyl	F	F	SEt
acyl	acyl	F	F	S-cyclopropyl
acyl	acyl	F	F	F
acyl	acyl	F	F	Cl
acyl	acyl	F	F	Br
acyl	acyl	F	F	I
acyl	amino acid	F	F	H
acyl	amino acid	F	F	NH_2
acyl	amino acid	F	F	NH-cyclopropyl
acyl	amino acid	F	F	NH-methyl
acyl	amino acid	F	F	NH-ethyl
acyl	amino acid	F	F	NH-acetyl
acyl	amino acid	F	F	OH
acyl	amino acid	F	F	OMe
acyl	amino acid	F	F	OEt
acyl	amino acid	F	F	O-cyclopropyl
acyl	amino acid	F	F	O-acetyl
acyl	amino acid	F	F	SH
acyl	amino acid	F	F	SMe
acyl	amino acid	F	F	SEt
acyl	amino acid	F	F	S-cyclopropyl
acyl	amino acid	F	F	F
acyl	amino acid	F	F	Cl
acyl	amino acid	F	F	Br
acyl	amino acid	F	F	I
H	acyl	F	F	H
H	acyl	F	F	NH_2
H	acyl	F	F	NH-cyclopropyl
H	acyl	F	F	NH-methyl
H	acyl	F	F	NH-ethyl
H	acyl	F	F	NH-acetyl
H	acyl	F	F	OH
H	acyl	F	F	OMe
H	acyl	F	F	OEt
H	acyl	F	F	O-cyclopropyl
H	acyl	F	F	O-acetyl
H	acyl	F	F	SH
H	acyl	F	F	SMe
H	acyl	F	F	SEt
H	acyl	F	F	S-cyclopropyl
H	acyl	F	F	F
H	acyl	F	F	Cl
H	acyl	F	F	Br

R^2	R^3	X^1	X^2	Y
H	acyl	F	F	I
H	amino acid	F	F	H
H	amino acid	F	F	NH_2
H	amino acid	F	F	NH-cyclopropyl
H	amino acid	F	F	NH-methyl
H	amino acid	F	F	NH-ethyl
H	amino acid	F	F	NH-acetyl
H	amino acid	F	F	OH
H	amino acid	F	F	OMe
H	amino acid	F	F	OEt
H	amino acid	F	F	O-cyclopropyl
H	amino acid	F	F	O-acetyl
H	amino acid	F	F	SH
H	amino acid	F	F	SMe
H	amino acid	F	F	SEt
H	amino acid	F	F	S-cyclopropyl
H	amino acid	F	F	F
H	amino acid	F	F	Cl
H	amino acid	F	F	Br
H	amino acid	F	F	I
amino acid	amino acid	F	F	H
amino acid	amino acid	F	F	NH_2
amino acid	amino acid	F	F	NH-cyclopropyl
amino acid	amino acid	F	F	NH-methyl
amino acid	amino acid	F	F	NH-ethyl
amino acid	amino acid	F	F	NH-acetyl
amino acid	amino acid	F	F	OH
amino acid	amino acid	F	F	OMe
amino acid	amino acid	F	F	OEt
amino acid	amino acid	F	F	O-cyclopropyl
amino acid	amino acid	F	F	O-acetyl
amino acid	amino acid	F	F	SH
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	I
amino acid	H	F	F	H
amino acid	H	F	F	NH_2
amino acid	H	F	F	NH-cyclopropyl
amino acid	H	F	F	NH-methyl
amino acid	H	F	F	NH-ethyl
amino acid	H	F	F	NH-acetyl
amino acid	H	F	F	OH
amino acid	H	F	F	OMe

R^2	R^3	X^1	X^2	Y
amino acid	H	F	F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	H	F	F	O-acetyl
amino acid	H	F	F	SH
amino acid	H	F	F	SMe
amino acid	H	F	F	SEt
amino acid	H	F	F	S-cyclopropyl
amino acid	H	F	F	F
amino acid	H	F	F	Cl
amino acid	H	F	F	Br
amino acid	H	F	F	I
amino acid	acyl	F	F	H
amino acid	acyl	F	F	NH_2
amino acid	acyl	F	F	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	F	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	F	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	F	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	F	Cl
amino acid	acyl	F	F	Br
amino acid	acyl	F	F	I
acyl	H	Cl	Cl	H
acyl	H	Cl	Cl	NH_2
acyl	H	Cl	Cl	NH-cyclopropyl
acyl	H	Cl	Cl	NH-methyl
acyl	H	Cl	Cl	NH-ethyl
acyl	H	Cl	Cl	NH-acetyl
acyl	H	Cl	Cl	OH
acyl	H	Cl	Cl	OMe
acyl	H	Cl	Cl	OEt
acyl	H	Cl	Cl	O-cyclopropyl
acyl	H	Cl	Cl	O-acetyl
acyl	H	Cl	Cl	SH
acyl	H	Cl	Cl	SMe
acyl	H	Cl	Cl	SEt
acyl	H	Cl	Cl	S-cyclopropyl
acyl	H	Cl	Cl	F
acyl	H	Cl	Cl	Cl

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	Cl	Br
acyl	H	Cl	Cl	I
acyl	acyl	Cl	Cl	H
acyl	acyl	Cl	Cl	NH_2
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	OH
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	amino acid	Cl	Cl	H
acyl	amino acid	Cl	Cl	NH_2
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
H	acyl	Cl	Cl	H
H	acyl	Cl	Cl	NH_2
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl
H	acyl	Cl	Cl	OH

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Cl	OMe
H	acyl	Cl	Cl	OEt
H	acyl	Cl	Cl	O-cyclopropyl
H	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	Cl	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
H	acyl	Cl	Cl	F
H	acyl	Cl	Cl	Cl
H	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	I
H	amino acid	Cl	Cl	H
H	amino acid	Cl	Cl	NH_2
H	amino acid	Cl	Cl	NH-cyclopropyl
H	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Cl	Cl	OEt
H	amino acid	Cl	Cl	O-cyclopropyl
H	amino acid	Cl	Cl	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
H	amino acid	Cl	Cl	SEt
H	amino acid	Cl	Cl	S-cyclopropyl
H	amino acid	Cl	Cl	F
H	amino acid	Cl	Cl	Cl
H	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
amino acid	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH_2
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl
amino acid	amino acid	Cl	Cl	NH-acetyl
amino acid	amino acid	Cl	Cl	OH
amino acid	amino acid	Cl	Cl	OMe
amino acid	amino acid	Cl	Cl	OEt
amino acid	amino acid	Cl	Cl	O-cyclopropyl
amino acid	amino acid	Cl	Cl	O-acetyl
amino acid	amino acid	Cl	Cl	SH
amino acid	amino acid	Cl	Cl	SMe
amino acid	amino acid	Cl	Cl	SEt
amino acid	amino acid	Cl	Cl	S-cyclopropyl
amino acid	amino acid	Cl	Cl	F

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	Cl	Cl
amino acid	amino acid	Cl	Cl	Br
amino acid	amino acid	Cl	Cl	I
amino acid	H	Cl	Cl	H
amino acid	H	Cl	Cl	NH_2
amino acid	H	Cl	Cl	NH-cyclopropyl
amino acid	H	Cl	Cl	NH-methyl
amino acid	H	Cl	Cl	NH-ethyl
amino acid	H	Cl	Cl	NH-acetyl
amino acid	H	Cl	Cl	OH
amino acid	H	Cl	Cl	OMe
amino acid	H	Cl	Cl	OEt
amino acid	H	Cl	Cl	O-cyclopropyl
amino acid	H	Cl	Cl	O-acetyl
amino acid	H	Cl	Cl	SH
amino acid	H	Cl	Cl	SMe
amino acid	H	Cl	Cl	SEt
amino acid	H	Cl	Cl	S-cyclopropyl
amino acid	H	Cl	Cl	F
amino acid	H	Cl	Cl	Cl
amino acid	H	Cl	Cl	Br
amino acid	H	Cl	Cl	I
amino acid	acyl	Cl	Cl	H
amino acid	acyl	Cl	Cl	NH_2
amino acid	acyl	Cl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	Cl	NH-methyl
amino acid	acyl	Cl	Cl	NH-ethyl
amino acid	acyl	Cl	Cl	NH-acetyl
amino acid	acyl	Cl	Cl	OH
amino acid	acyl	Cl	Cl	OMe
amino acid	acyl	Cl	Cl	OEt
amino acid	acyl	Cl	Cl	O-cyclopropyl
amino acid	acyl	Cl	Cl	O-acetyl
amino acid	acyl	Cl	Cl	SH
amino acid	acyl	Cl	Cl	SMe
amino acid	acyl	Cl	Cl	SEt
amino acid	acyl	Cl	Cl	S-cyclopropyl
amino acid	acyl	Cl	Cl	F
amino acid	acyl	Cl	Cl	Cl
amino acid	acyl	Cl	Cl	Br
amino acid	acyl	Cl	Cl	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	SH	SH	H
acyl	H	SH	SH	NH_2
acyl	H	SH	SH	NH-cyclopropyl
acyl	H	SH	SH	NH-methyl
acyl	H	SH	SH	NH-ethyl
acyl	H	SH	SH	NH-acetyl
acyl	H	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	H	SH	SH	SMe
acyl	H	SH	SH	SEt
acyl	H	SH	SH	S-cyclopropyl
acyl	H	SH	SH	F
acyl	H	SH	SH	Cl
acyl	H	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH_2
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	H
acyl	amino acid	SH	SH	NH_2
acyl	amino acid	SH	SH	NH-cyclopropyl
acyl	amino acid	SH	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	OH
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl
acyl	amino acid	SH	SH	SH
acyl	amino acid	SH	SH	SMe
acyl	amino acid	SH	SH	SEt
acyl	amino acid	SH	SH	S-cyclopropyl
acyl	amino acid	SH	SH	F
acyl	amino acid	SH	SH	Cl
acyl	amino acid	SH	SH	Br
acyl	amino acid	SH	SH	I
H	acyl	SH	SH	H
H	acyl	SH	SH	NH_2
H	acyl	SH	SH	NH-cyclopropyl
H	acyl	SH	SH	NH-methyl
H	acyl	SH	SH	NH-ethyl
H	acyl	SH	SH	NH-acetyl
H	acyl	SH	SH	OH
H	acyl	SH	SH	OMe
H	acyl	SH	SH	OEt
H	acyl	SH	SH	O-cyclopropyl
H	acyl	SH	SH	O-acetyl
H	acyl	SH	SH	SH
H	acyl	SH	SH	SMe
H	acyl	SH	SH	SEt
H	acyl	SH	SH	S-cyclopropyl
H	acyl	SH	SH	F
H	acyl	SH	SH	Cl
H	acyl	SH	SH	Br
H	acyl	SH	SH	I
H	amino acid	SH	SH	H
H	amino acid	SH	SH	NH_2
H	amino acid	SH	SH	NH-cyclopropyl
H	amino acid	SH	SH	NH-methyl
H	amino acid	SH	SH	NH-ethyl
H	amino acid	SH	SH	NH-acetyl
H	amino acid	SH	SH	OH
H	amino acid	SH	SH	OMe
H	amino acid	SH	SH	OEt
H	amino acid	SH	SH	O-cyclopropyl
H	amino acid	SH	SH	O-acetyl
H	amino acid	SH	SH	SH
H	amino acid	SH	SH	SMe

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	SH	SEt
H	amino acid	SH	SH	S-cyclopropyl
H	amino acid	SH	SH	F
H	amino acid	SH	SH	Cl
H	amino acid	SH	SH	Br
H	amino acid	SH	SH	I
amino acid	amino acid	SH	SH	H
amino acid	amino acid	SH	SH	NH_2
amino acid	amino acid	SH	SH	NH-cyclopropyl
amino acid	amino acid	SH	SH	NH-methyl
amino acid	amino acid	SH	SH	NH-ethyl
amino acid	amino acid	SH	SH	NH-acetyl
amino acid	amino acid	SH	SH	OH
amino acid	amino acid	SH	SH	OMe
amino acid	amino acid	SH	SH	OEt
amino acid	amino acid	SH	SH	O-cyclopropyl
amino acid	amino acid	SH	SH	O-acetyl
amino acid	amino acid	SH	SH	SH
amino acid	amino acid	SH	SH	SMe
amino acid	amino acid	SH	SH	SEt
amino acid	amino acid	SH	SH	S-cyclopropyl
amino acid	amino acid	SH	SH	F
amino acid	amino acid	SH	SH	Cl
amino acid	amino acid	SH	SH	Br
amino acid	amino acid	SH	SH	I
amino acid	H	SH	SH	H
amino acid	H	SH	SH	NH_2
amino acid	H	SH	SH	NH-cyclopropyl
amino acid	H	SH	SH	NH-methyl
amino acid	H	SH	SH	NH-ethyl
amino acid	H	SH	SH	NH-acetyl
amino acid	H	SH	SH	OH
amino acid	H	SH	SH	OMe
amino acid	H	SH	SH	OEt
amino acid	H	SH	SH	O-cyclopropyl
amino acid	H	SH	SH	O-acetyl
amino acid	H	SH	SH	SH
amino acid	H	SH	SH	SMe
amino acid	H	SH	SH	SEt
amino acid	H	SH	SH	S-cyclopropyl
amino acid	H	SH	SH	F
amino acid	H	SH	SH	Cl
amino acid	H	SH	SH	Br
amino acid	H	SH	SH	I
amino acid	acyl	SH	SH	H
amino acid	acyl	SH	SH	NH_2
amino acid	acyl	SH	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	SH	NH-methyl
amino acid	acyl	SH	SH	NH-ethyl
amino acid	acyl	SH	SH	NH-acetyl
amino acid	acyl	SH	SH	OH
amino acid	acyl	SH	SH	OMe
amino acid	acyl	SH	SH	OEt
amino acid	acyl	SH	SH	O-cyclopropyl
amino acid	acyl	SH	SH	O-acetyl
amino acid	acyl	SH	SH	SH
amino acid	acyl	SH	SH	SMe
amino acid	acyl	SH	SH	SEt
amino acid	acyl	SH	SH	S-cyclopropyl
amino acid	acyl	SH	SH	F
amino acid	acyl	SH	SH	Cl
amino acid	acyl	SH	SH	Br
amino acid	acyl	SH	SH	I
acyl	H	I	I	H

Table 2

R^2	R^3	X^1	Y
acyl	H	H	H
acyl	H	H	NH_2
acyl	H	H	NH-cyclopropyl
acyl	H	H	NH-methyl
acyl	H	H	NH-ethyl
acyl	H	H	NH-acetyl
acyl	H	H	OH
acyl	H	H	OMe
acyl	H	H	OEt
acyl	H	H	O-cyclopropyl
acyl	H	H	O-acetyl
acyl	H	H	SH
acyl	H	H	SMe
acyl	H	H	SEt
acyl	H	H	S-cyclopropyl
acyl	H	H	F
acyl	H	H	Cl
acyl	H	H	Br
acyl	H	H	I
acyl	acyl	H	H
acyl	acyl	H	NH_2
acyl	acyl	H	NH-cyclopropyl
acyl	acyl	H	NH-methyl
acyl	acyl	H	NH-ethyl
acyl	acyl	H	NH-acetyl
acyl	acyl	H	OH
acyl	acyl	H	OMe
acyl	acyl	H	OEt
acyl	acyl	H	O-cyclopropyl
acyl	acyl	H	O-acetyl
acyl	acyl	H	SH
acyl	acyl	H	SMe
acyl	acyl	H	SEt
acyl	acyl	H	S-cyclopropyl
acyl	acyl	H	F
acyl	acyl	H	Cl
acyl	acyl	H	Br
acyl	acyl	H	I
acyl	amino acid	H	H
acyl	amino acid	H	NH_2
acyl	amino acid	H	NH-cyclopropyl
acyl	amino acid	H	NH-methyl

R^2	R^3	X^1	Y
acyl	amino acid	H	NH-ethyl
acyl	amino acid	H	NH-acetyl
acyl	amino acid	H	OH
acyl	amino acid	H	OMe
acyl	amino acid	H	OEt
acyl	amino acid	H	O-cyclopropyl
acyl	amino acid	H	O-acetyl
acyl	amino acid	H	SH
acyl	amino acid	H	SMe
acyl	amino acid	H	SEt
acyl	amino acid	H	S-cyclopropyl
acyl	amino acid	H	F
acyl	amino acid	H	Cl
acyl	amino acid	H	Br
acyl	amino acid	H	I
H	acyl	H	H
H	acyl	H	NH_2
H	acyl	H	NH-cyclopropyl
H	acyl	H	NH-methyl
H	acyl	H	NH-ethyl
H	acyl	H	NH-acetyl
H	acyl	H	OH
H	acyl	H	OMe
H	acyl	H	OEt
H	acyl	H	O-cyclopropyl
H	acyl	H	O-acetyl
H	acyl	H	SH
H	acyl	H	SMe
H	acyl	H	SEt
H	acyl	H	S-cyclopropyl
H	acyl	H	F
H	acyl	H	Cl
H	acyl	H	Br
H	acyl	H	I
H	amino acid	H	H
H	amino acid	H	NH_2
H	amino acid	H	NH-cyclopropyl
H	amino acid	H	NH-methyl
H	amino acid	H	NH-ethyl
H	amino acid	H	NH-acetyl
H	amino acid	H	OH
H	amino acid	H	OMe
H	amino acid	H	OEt
H	amino acid	H	O-cyclopropyl

R^2	R^3	X^1	Y
H	amino acid	H	O-acetyl
H	amino acid	H	SH
H	amino acid	H	SMe
H	amino acid	H	SEt
H	amino acid	H	S-cyclopropyl
H	amino acid	H	F
H	amino acid	H	Cl
H	amino acid	H	Br
H	amino acid	H	I
amino acid	amino acid	H	H
amino acid	amino acid	H	NH_2
amino acid	amino acid	H	NH-cyclopropyl
amino acid	amino acid	H	NH-methyl
amino acid	amino acid	H	NH-ethyl
amino acid	amino acid	H	NH-acetyl
amino acid	amino acid	H	OH
amino acid	amino acid	H	OMe
amino acid	amino acid	H	OEt
amino acid	amino acid	H	O-cyclopropyl
amino acid	amino acid	H	O-acetyl
amino acid	amino acid	H	SH
amino acid	amino acid	H	SMe
amino acid	amino acid	H	SEt
amino acid	amino acid	H	S-cyclopropyl
amino acid	amino acid	H	F
amino acid	amino acid	H	Cl
amino acid	amino acid	H	Br
amino acid	amino acid	H	I
amino acid	H	H	H
amino acid	H	H	NH_2
amino acid	H	H	NH-cyclopropyl
amino acid	H	H	NH-methyl
amino acid	H	H	NH-ethyl
amino acid	H	H	NH-acetyl
amino acid	H	H	OH
amino acid	H	H	OMe
amino acid	H	H	OEt
amino acid	H	H	O-cyclopropyl
amino acid	H	H	O-acetyl
amino acid	H	H	SH
amino acid	H	H	SMe
amino acid	H	H	SEt
amino acid	H	H	S-cyclopropyl
amino acid	H	H	F

R^2	R^3	X^1	Y
amino acid	H	H	Cl
amino acid	H	H	Br
amino acid	H	H	I
amino acid	acyl	H	H
amino acid	acyl	H	NH_2
amino acid	acyl	H	NH-cyclopropyl
amino acid	acyl	H	NH-methyl
amino acid	acyl	H	NH-ethyl
amino acid	acyl	H	NH-acetyl
amino acid	acyl	H	OH
amino acid	acyl	H	OMe
amino acid	acyl	H	OEt
amino acid	acyl	H	O-cyclopropyl
amino acid	acyl	H	O-acetyl
amino acid	acyl	H	SH
amino acid	acyl	H	SMe
amino acid	acyl	H	SEt
amino acid	acyl	H	S-cyclopropyl
amino acid	acyl	H	F
amino acid	acyl	H	Cl
amino acid	acyl	H	Br
amino acid	acyl	H	I
acyl	H	SH	H
acyl	H	SH	NH_2
acyl	H	SH	NH-cyclopropyl
acyl	H	SH	NH-methyl
acyl	H	SH	NH-ethyl
acyl	H	SH	NH-acetyl
acyl	H	SH	OH
acyl	H	SH	OMe
acyl	H	SH	OEt
acyl	H	SH	O-cyclopropyl
acyl	H	SH	O-acetyl
acyl	H	SH	SH
acyl	H	SH	SMe
acyl	H	SH	SEt
acyl	H	SH	S-cyclopropyl
acyl	H	SH	F
acyl	H	SH	Cl
acyl	H	SH	Br
acyl	H	SH	I
acyl	acyl	SH	H
acyl	acyl	SH	NH_2
acyl	acyl	SH	NH-cyclopropyl

R^2	R^3	X^1	Y
acyl	acyl	SH	NH-methyl
acyl	acyl	SH	NH-ethyl
acyl	acyl	SH	NH-acetyl
acyl	acyl	SH	OH
acyl	acyl	SH	OMe
acyl	acyl	SH	OEt
acyl	acyl	SH	O-cyclopropyl
acyl	acyl	SH	O-acetyl
acyl	acyl	SH	SH
acyl	acyl	SH	SMe
acyl	acyl	SH	SEt
acyl	acyl	SH	S-cyclopropyl
acyl	acyl	SH	F
acyl	acyl	SH	Cl
acyl	acyl	SH	Br
acyl	acyl	SH	I
acyl	amino acid	SH	H
acyl	amino acid	SH	NH_2
acyl	amino acid	SH	NH-cyclopropyl
acyl	amino acid	SH	NH-methyl
acyl	amino acid	SH	NH-ethyl
acyl	amino acid	SH	NH-acetyl
acyl	amino acid	SH	OH
acyl	amino acid	SH	OMe
acyl	amino acid	SH	OEt
acyl	amino acid	SH	O-cyclopropyl
acyl	amino acid	SH	O-acetyl
acyl	amino acid	SH	SH
acyl	amino acid	SH	SMe
acyl	amino acid	SH	SEt
acyl	amino acid	SH	S-cyclopropyl
acyl	amino acid	SH	F
acyl	amino acid	SH	Cl
acyl	amino acid	SH	Br
acyl	amino acid	SH	I
H	acyl	SH	H
H	acyl	SH	NH_2
H	acyl	SH	NH-cyclopropyl
H	acyl	SH	NH-methyl
H	acyl	SH	NH-ethyl
H	acyl	SH	NH-acetyl
H	acyl	SH	OH
H	acyl	SH	OMe
H	acyl	SH	OEt

R^2	R^3	X^1	Y
H	acyl	SH	O-cyclopropyl
H	acyl	SH	O-acetyl
H	acyl	SH	SH
H	acyl	SH	SMe
H	acyl	SH	SEt
H	acyl	SH	S-cyclopropyl
H	acyl	SH	F
H	acyl	SH	Cl
H	acyl	SH	Br
H	acyl	SH	I
H	amino acid	SH	H
H	amino acid	SH	NH_2
H	amino acid	SH	NH-cyclopropyl
H	amino acid	SH	NH-methyl
H	amino acid	SH	NH-ethyl
H	amino acid	SH	NH-acetyl
H	amino acid	SH	OH
H	amino acid	SH	OMe
H	amino acid	SH	OEt
H	amino acid	SH	O-cyclopropyl
H	amino acid	SH	O-acetyl
H	amino acid	SH	SH
H	amino acid	SH	SMe
H	amino acid	SH	SEt
H	amino acid	SH	S-cyclopropyl
H	amino acid	SH	F
H	amino acid	SH	Cl
H	amino acid	SH	Br
H	amino acid	SH	I
amino acid	amino acid	SH	H
amino acid	amino acid	SH	NH_2
amino acid	amino acid	SH	NH-cyclopropyl
amino acid	amino acid	SH	NH-methyl
amino acid	amino acid	SH	NH-ethyl
amino acid	amino acid	SH	NH-acetyl
amino acid	amino acid	SH	OH
amino acid	amino acid	SH	OMe
amino acid	amino acid	SH	OEt
amino acid	amino acid	SH	O-cyclopropyl
amino acid	amino acid	SH	O-acetyl
amino acid	amino acid	SH	SH
amino acid	amino acid	SH	SMe
amino acid	amino acid	SH	SEt
amino acid	amino acid	SH	S-cyclopropyl

R^2	R^3	X^1	Y
amino acid	amino acid	SH	F
amino acid	amino acid	SH	Cl
amino acid	amino acid	SH	Br
amino acid	amino acid	SH	I
amino acid	H	SH	H
amino acid	H	SH	NH_2
amino acid	H	SH	NH-cyclopropyl
amino acid	H	SH	NH-methyl
amino acid	H	SH	NH-ethyl
amino acid	H	SH	NH-acetyl
amino acid	H	SH	OH
amino acid	H	SH	OMe
amino acid	H	SH	OEt
amino acid	H	SH	O-cyclopropyl
amino acid	H	SH	O-acetyl
amino acid	H	SH	SH
amino acid	H	SH	SMe
amino acid	H	SH	SEt
amino acid	H	SH	S-cyclopropyl
amino acid	H	SH	F
amino acid	H	SH	Cl
amino acid	H	SH	Br
amino acid	H	SH	I
amino acid	acyl	SH	H
amino acid	acyl	SH	NH_2
amino acid	acyl	SH	NH-cyclopropyl
amino acid	acyl	SH	NH-methyl
amino acid	acyl	SH	NH-ethyl
amino acid	acyl	SH	NH-acetyl
amino acid	acyl	SH	OH
amino acid	acyl	SH	OMe
amino acid	acyl	SH	OEt
amino acid	acyl	SH	O-cyclopropyl
amino acid	acyl	SH	O-acetyl
amino acid	acyl	SH	SH
amino acid	acyl	SH	SMe
amino acid	acyl	SH	SEt
amino acid	acyl	SH	S-cyclopropyl
amino acid	acyl	SH	F
amino acid	acyl	SH	Cl
amino acid	acyl	SH	Br
amino acid	acyl	SH	I
acyl	H	Cl	H
acyl	H	Cl	NH_2

R^2	R^3	X^1	Y
acyl	H	Cl	NH-cyclopropyl
acyl	H	Cl	NH-methyl
acyl	H	Cl	NH-ethyl
acyl	H	Cl	NH-acetyl
acyl	H	Cl	OH
acyl	H	Cl	OMe
acyl	H	Cl	OEt
acyl	H	Cl	O-cyclopropyl
acyl	H	Cl	O-acetyl
acyl	H	Cl	SH
acyl	H	Cl	SMe
acyl	H	Cl	SEt
acyl	H	Cl	S-cyclopropyl
acyl	H	Cl	F
acyl	H	Cl	Cl
acyl	H	Cl	Br
acyl	H	Cl	I
acyl	acyl	Cl	H
acyl	acyl	Cl	NH_2
acyl	acyl	Cl	NH-cyclopropyl
acyl	acyl	Cl	NH-methyl
acyl	acyl	Cl	NH-ethyl
acyl	acyl	Cl	NH-acetyl
acyl	acyl	Cl	OH
acyl	acyl	Cl	OMe
acyl	acyl	Cl	OEt
acyl	acyl	Cl	O-cyclopropyl
acyl	acyl	Cl	O-acetyl
acyl	acyl	Cl	SH
acyl	acyl	Cl	SMe
acyl	acyl	Cl	SEt
acyl	acyl	Cl	S-cyclopropyl
acyl	acyl	Cl	F
acyl	acyl	Cl	Cl
acyl	acyl	Cl	Br
acyl	acyl	Cl	I
acyl	amino acid	Cl	H
acyl	amino acid	Cl	NH_2
acyl	amino acid	Cl	NH-cyclopropyl
acyl	amino acid	Cl	NH-methyl
acyl	amino acid	Cl	NH-ethyl
acyl	amino acid	Cl	NH-acetyl
acyl	amino acid	Cl	OH
acyl	amino acid	Cl	OMe

R^2	R^3	X^1	Y
acyl	amino acid	Cl	OEt
acyl	amino acid	Cl	O-cyclopropyl
acyl	amino acid	Cl	O-acetyl
acyl	amino acid	Cl	SH
acyl	amino acid	Cl	SMe
acyl	amino acid	Cl	SEt
acyl	amino acid	Cl	S-cyclopropyl
acyl	amino acid	Cl	F
acyl	amino acid	Cl	Cl
acyl	amino acid	Cl	Br
acyl	amino acid	Cl	I
H	acyl	Cl	H
H	acyl	Cl	NH_2
H	acyl	Cl	NH-cyclopropyl
H	acyl	Cl	NH-methyl
H	acyl	Cl	NH-ethyl
H	acyl	Cl	NH-acetyl
H	acyl	Cl	OH
H	acyl	Cl	OMe
H	acyl	Cl	OEt
H	acyl	Cl	O-cyclopropyl
H	acyl	Cl	O-acetyl
H	acyl	Cl	SH
H	acyl	Cl	SMe
H	acyl	Cl	SEt
H	acyl	Cl	S-cyclopropyl
H	acyl	Cl	F
H	acyl	Cl	Cl
H	acyl	Cl	Br
H	acyl	Cl	I
H	amino acid	Cl	H
H	amino acid	Cl	NH_2
H	amino acid	Cl	NH-cyclopropyl
H	amino acid	Cl	NH-methyl
H	amino acid	Cl	NH-ethyl
H	amino acid	Cl	NH-acetyl
H	amino acid	Cl	OH
H	amino acid	Cl	OMe
H	amino acid	Cl	OEt
H	amino acid	Cl	O-cyclopropyl
H	amino acid	Cl	O-acetyl
H	amino acid	Cl	SH
H	amino acid	Cl	SMe
H	amino acid	Cl	SEt

R^2	R^3	X^1	Y
H	amino acid	Cl	S-cyclopropyl
H	amino acid	Cl	F
H	amino acid	Cl	Cl
H	amino acid	Cl	Br
H	amino acid	Cl	I
amino acid	amino acid	Cl	H
amino acid	amino acid	Cl	NH_2
amino acid	amino acid	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	NH-methyl
amino acid	amino acid	Cl	NH-ethyl
amino acid	amino acid	Cl	NH-acetyl
amino acid	amino acid	Cl	OH
amino acid	amino acid	Cl	OMe
amino acid	amino acid	Cl	OEt
amino acid	amino acid	Cl	O-cyclopropyl
amino acid	amino acid	Cl	O-acetyl
amino acid	amino acid	Cl	SH
amino acid	amino acid	Cl	SMe
amino acid	amino acid	Cl	SEt
amino acid	amino acid	Cl	S-cyclopropyl
amino acid	amino acid	Cl	F
amino acid	amino acid	Cl	Cl
amino acid	amino acid	Cl	Br
amino acid	amino acid	Cl	I
amino acid	H	Cl	H
amino acid	H	Cl	NH_2
amino acid	H	Cl	NH-cyclopropyl
amino acid	H	Cl	NH-methyl
amino acid	H	Cl	NH-ethyl
amino acid	H	Cl	NH-acetyl
amino acid	H	Cl	OH
amino acid	H	Cl	OMe
amino acid	H	Cl	OEt
amino acid	H	Cl	O-cyclopropyl
amino acid	H	Cl	O-acetyl
amino acid	H	Cl	SH
amino acid	H	Cl	SMe
amino acid	H	Cl	SEt
amino acid	H	Cl	S-cyclopropyl
amino acid	H	Cl	F
amino acid	H	Cl	Cl
amino acid	H	Cl	Br
amino acid	H	Cl	I
amino acid	acyl	Cl	H

R^2	R^3	X^1	Y
amino acid	acyl	Cl	NH_2
amino acid	acyl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	NH-methyl
amino acid	acyl	Cl	NH-ethyl
amino acid	acyl	Cl	NH-acetyl
amino acid	acyl	Cl	OH
amino acid	acyl	Cl	OMe
amino acid	acyl	Cl	OEt
amino acid	acyl	Cl	O-cyclopropyl
amino acid	acyl	Cl	O-acetyl
amino acid	acyl	Cl	SH
amino acid	acyl	Cl	SMe
amino acid	acyl	Cl	SEt
amino acid	acyl	Cl	S-cyclopropyl
amino acid	acyl	Cl	F
amino acid	acyl	Cl	Cl
amino acid	acyl	Cl	Br
amino acid	acyl	Cl	I
acyl	H	Br	H
acyl	H	Br	NH_2
acyl	H	Br	NH-cyclopropyl
acyl	H	Br	NH-methyl
acyl	H	Br	NH-ethyl
acyl	H	Br	NH-acetyl
acyl	H	Br	OH
acyl	H	Br	OMe
acyl	H	Br	OEt
acyl	H	Br	O-cyclopropyl
acyl	H	Br	O-acetyl
acyl	H	Br	SH
acyl	H	Br	SMe
acyl	H	Br	SEt
acyl	H	Br	S-cyclopropyl
acyl	H	Br	F
acyl	H	Br	Cl
acyl	H	Br	Br
acyl	H	Br	I
acyl	acyl	Br	H
acyl	acyl	Br	NH_2
acyl	acyl	Br	NH-cyclopropyl
acyl	acyl	Br	NH-methyl
acyl	acyl	Br	NH-ethyl
acyl	acyl	Br	NH-acetyl
acyl	acyl	Br	OH

R^2	R^3	X^1	Y
acyl	acyl	Br	OMe
acyl	acyl	Br	OEt
acyl	acyl	Br	O-cyclopropyl
acyl	acyl	Br	O-acetyl
acyl	acyl	Br	SH
acyl	acyl	Br	SMe
acyl	acyl	Br	SEt
acyl	acyl	Br	S-cyclopropyl
acyl	acyl	Br	F
acyl	acyl	Br	Cl
acyl	acyl	Br	Br
acyl	acyl	Br	I
acyl	amino acid	Br	H
acyl	amino acid	Br	NH_2
acyl	amino acid	Br	NH-cyclopropyl
acyl	amino acid	Br	NH-methyl
acyl	amino acid	Br	NH-ethyl
acyl	amino acid	Br	NH-acetyl
acyl	amino acid	Br	OH
acyl	amino acid	Br	OMe
acyl	amino acid	Br	OEt
acyl	amino acid	Br	O-cyclopropyl
acyl	amino acid	Br	O-acetyl
acyl	amino acid	Br	SH
acyl	amino acid	Br	SMe
acyl	amino acid	Br	SEt
acyl	amino acid	Br	S-cyclopropyl
acyl	amino acid	Br	F
acyl	amino acid	Br	Cl
acyl	amino acid	Br	Br
acyl	amino acid	Br	I
H	acyl	Br	H
H	acyl	Br	NH_2
H	acyl	Br	NH-cyclopropyl
H	acyl	Br	NH-methyl
H	acyl	Br	NH-ethyl
H	acyl	Br	NH-acetyl
H	acyl	Br	OH
H	acyl	Br	OMe
H	acyl	Br	OEt
H	acyl	Br	O-cyclopropyl
H	acyl	Br	O-acetyl
H	acyl	Br	SH
H	acyl	Br	SMe

R^2	R^3	X^1	Y
H	acyl	Br	SEt
H	acyl	Br	S-cyclopropyl
H	acyl	Br	F
H	acyl	Br	Cl
H	acyl	Br	Br
H	acyl	Br	I
H	amino acid	Br	H
H	amino acid	Br	NH_2
H	amino acid	Br	NH-cyclopropyl
H	amino acid	Br	NH-methyl
H	amino acid	Br	NH-ethyl
H	amino acid	Br	NH-acetyl
H	amino acid	Br	OH
H	amino acid	Br	OMe
H	amino acid	Br	OEt
H	amino acid	Br	O-cyclopropyl
H	amino acid	Br	O-acetyl
H	amino acid	Br	SH
H	amino acid	Br	SMe
H	amino acid	Br	SEt
H	amino acid	Br	S-cyclopropyl
H	amino acid	Br	F
H	amino acid	Br	Cl
H	amino acid	Br	Br
H	amino acid	Br	I
amino acid	amino acid	Br	H
amino acid	amino acid	Br	NH_2
amino acid	amino acid	Br	NH-cyclopropyl
amino acid	amino acid	Br	NH-methyl
amino acid	amino acid	Br	NH-ethyl
amino acid	amino acid	Br	NH-acetyl
amino acid	amino acid	Br	OH
amino acid	amino acid	Br	OMe
amino acid	amino acid	Br	OEt
amino acid	amino acid	Br	O-cyclopropyl
amino acid	amino acid	Br	O-acetyl
amino acid	amino acid	Br	SH
amino acid	amino acid	Br	SMe
amino acid	amino acid	Br	SEt
amino acid	amino acid	Br	S-cyclopropyl
amino acid	amino acid	Br	F
amino acid	amino acid	Br	Cl
amino acid	amino acid	Br	Br
amino acid	amino acid	Br	I

R^2	R^3	X^1	Y
amino acid	H	Br	H
amino acid	H	Br	NH_2
amino acid	H	Br	NH-cyclopropyl
amino acid	H	Br	NH-methyl
amino acid	H	Br	NH-ethyl
amino acid	H	Br	NH-acetyl
amino acid	H	Br	OH
amino acid	H	Br	OMe
amino acid	H	Br	OEt
amino acid	H	Br	O-cyclopropyl
amino acid	H	Br	O-acetyl
amino acid	H	Br	SH
amino acid	H	Br	SMe
amino acid	H	Br	SEt
amino acid	H	Br	S-cyclopropyl
amino acid	H	Br	F
amino acid	H	Br	Cl
amino acid	H	Br	Br
amino acid	H	Br	I
amino acid	acyl	Br	H
amino acid	acyl	Br	NH_2
amino acid	acyl	Br	NH-cyclopropyl
amino acid	acyl	Br	NH-methyl
amino acid	acyl	Br	NH-ethyl
amino acid	acyl	Br	NH-acetyl
amino acid	acyl	Br	OH
amino acid	acyl	Br	OMe
amino acid	acyl	Br	OEt
amino acid	acyl	Br	O-cyclopropyl
amino acid	acyl	Br	O-acetyl
amino acid	acyl	Br	SH
amino acid	acyl	Br	SMe
amino acid	acyl	Br	SEt
amino acid	acyl	Br	S-cyclopropyl
amino acid	acyl	Br	F
amino acid	acyl	Br	Cl
amino acid	acyl	Br	Br
amino acid	acyl	Br	I
acyl	H	NH_2	H
acyl	H	NH_2	NH_2
acyl	H	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH-methyl
acyl	H	NH_2	NH-ethyl
acyl	H	NH_2	NH-acetyl

R^2	R^3	X^1	Y
acyl	H	NH_2	OH
acyl	H	NH_2	OMe
acyl	H	NH_2	OEt
acyl	H	NH_2	O-cyclopropyl
acyl	H	NH_2	O-acetyl
acyl	H	NH_2	SH
acyl	H	NH_2	SMe
acyl	H	NH_2	SEt
acyl	H	NH_2	S-cyclopropyl
acyl	H	NH_2	F
acyl	H	NH_2	Cl
acyl	H	NH_2	Br
acyl	H	NH_2	I
acyl	acyl	NH_2	H
acyl	acyl	NH_2	NH_2
acyl	acyl	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH-methyl
acyl	acyl	NH_2	NH-ethyl
acyl	acyl	NH_2	NH-acetyl
acyl	acyl	NH_2	OH
acyl	acyl	NH_2	OMe
acyl	acyl	NH_2	OEt
acyl	acyl	NH_2	O-cyclopropyl
acyl	acyl	NH_2	O-acetyl
acyl	acyl	NH_2	SH
acyl	acyl	NH_2	SMe
acyl	acyl	NH_2	SEt
acyl	acyl	NH_2	S-cyclopropyl
acyl	acyl	NH_2	F
acyl	acyl	NH_2	Cl
acyl	acyl	NH_2	Br
acyl	acyl	NH_2	I
acyl	amino acid	NH_2	H
acyl	amino acid	NH_2	NH_2
acyl	amino acid	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH-methyl
acyl	amino acid	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH-acetyl
acyl	amino acid	NH_2	OH
acyl	amino acid	NH_2	OMe
acyl	amino acid	NH_2	OEt
acyl	amino acid	NH_2	O-cyclopropyl
acyl	amino acid	NH_2	O-acetyl
acyl	amino acid	NH_2	SH

R^2	R^3	X^1	Y
acyl	amino acid	NH_2	SMe
acyl	amino acid	NH_2	SEt
acyl	amino acid	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	F
acyl	amino acid	NH_2	Cl
acyl	amino acid	NH_2	Br
acyl	amino acid	NH_2	I
H	acyl	NH_2	H
H	acyl	NH_2	NH_2
H	acyl	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH-methyl
H	acyl	NH_2	NH-ethyl
H	acyl	NH_2	NH-acetyl
H	acyl	NH_2	OH
H	acyl	NH_2	OMe
H	acyl	NH_2	OEt
H	acyl	NH_2	O-cyclopropyl
H	acyl	NH_2	O-acetyl
H	acyl	NH_2	SH
H	acyl	NH_2	SMe
H	acyl	NH_2	SEt
H	acyl	NH_2	S-cyclopropyl
H	acyl	NH_2	F
H	acyl	NH_2	Cl
H	acyl	NH_2	Br
H	acyl	NH_2	I
H	amino acid	NH_2	H
H	amino acid	NH_2	NH_2
H	amino acid	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH-methyl
H	amino acid	NH_2	NH-ethyl
H	amino acid	NH_2	NH-acetyl
H	amino acid	NH_2	OH
H	amino acid	NH_2	OMe
H	amino acid	NH_2	OEt
H	amino acid	NH_2	O-cyclopropyl
H	amino acid	NH_2	O-acetyl
H	amino acid	NH_2	SH
H	amino acid	NH_2	SMe
H	amino acid	NH_2	SEt
H	amino acid	NH_2	S-cyclopropyl
H	amino acid	NH_2	F
H	amino acid	NH_2	Cl
H	amino acid	NH_2	Br

R^2	R^3	X^1	Y
H	amino acid	NH_2	I
amino acid	amino acid	NH_2	H
amino acid	amino acid	NH_2	NH_2
amino acid	amino acid	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH-acetyl
amino acid	amino acid	NH_2	OH
amino acid	amino acid	NH_2	OMe
amino acid	amino acid	NH_2	OEt
amino acid	amino acid	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	O-acetyl
amino acid	amino acid	NH_2	SH
amino acid	amino acid	NH_2	SMe
amino acid	amino acid	NH_2	SEt
amino acid	amino acid	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	F
amino acid	amino acid	NH_2	Cl
amino acid	amino acid	NH_2	Br
amino acid	amino acid	NH_2	I
amino acid	H	NH_2	H
amino acid	H	NH_2	NH_2
amino acid	H	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH-methyl
amino acid	H	NH_2	NH-ethyl
amino acid	H	NH_2	NH-acetyl
amino acid	H	NH_2	OH
amino acid	H	NH_2	OMe
amino acid	H	NH_2	OEt
amino acid	H	NH_2	O-cyclopropyl
amino acid	H	NH_2	O-acetyl
amino acid	H	NH_2	SH
amino acid	H	NH_2	SMe
amino acid	H	NH_2	SEt
amino acid	H	NH_2	S-cyclopropyl
amino acid	H	NH_2	F
amino acid	H	NH_2	Cl
amino acid	H	NH_2	Br
amino acid	H	NH_2	I
amino acid	acyl	NH_2	H
amino acid	acyl	NH_2	NH_2
amino acid	acyl	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH-methyl
amino acid	acyl	NH_2	NH-ethyl

R^2	R^3	X^1	Y
amino acid	acyl	NH_2	NH-acetyl
amino acid	acyl	NH_2	OH
amino acid	acyl	NH_2	OMe
amino acid	acyl	NH_2	OEt
amino acid	acyl	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	O-acetyl
amino acid	acyl	NH_2	SH
amino acid	acyl	NH_2	SMe
amino acid	acyl	NH_2	SEt
amino acid	acyl	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	F
amino acid	acyl	NH_2	Cl
amino acid	acyl	NH_2	Br
amino acid	acyl	NH_2	I
acyl	H	OH	H
acyl	H	OH	NH_2
acyl	H	OH	NH-cyclopropyl
acyl	H	OH	NH-methyl
acyl	H	OH	NH-ethyl
acyl	H	OH	NH-acetyl
acyl	H	OH	OH
acyl	H	OH	OMe
acyl	H	OH	OEt
acyl	H	OH	O-cyclopropyl
acyl	H	OH	O-acetyl
acyl	H	OH	SH
acyl	H	OH	SMe
acyl	H	OH	SEt
acyl	H	OH	S-cyclopropyl
acyl	H	OH	F
acyl	H	OH	Cl
acyl	H	OH	Br
acyl	H	OH	I
acyl	acyl	OH	H
acyl	acyl	OH	NH_2
acyl	acyl	OH	NH-cyclopropyl
acyl	acyl	OH	NH-methyl
acyl	acyl	OH	NH-ethyl
acyl	acyl	OH	NH-acetyl
acyl	acyl	OH	OH
acyl	acyl	OH	OMe
acyl	acyl	OH	OEt
acyl	acyl	OH	O-cyclopropyl
acyl	acyl	OH	O-acetyl

R^2	R^3	X^1	Y
acyl	acyl	OH	SH
acyl	acyl	OH	SMe
acyl	acyl	OH	SEt
acyl	acyl	OH	S-cyclopropyl
acyl	acyl	OH	F
acyl	acyl	OH	Cl
acyl	acyl	OH	Br
acyl	acyl	OH	I
acyl	amino acid	OH	H
acyl	amino acid	OH	NH_2
acyl	amino acid	OH	NH-cyclopropyl
acyl	amino acid	OH	NH-methyl
acyl	amino acid	OH	NH-ethyl
acyl	amino acid	OH	NH-acetyl
acyl	amino acid	OH	OH
acyl	amino acid	OH	OMe
acyl	amino acid	OH	OEt
acyl	amino acid	OH	O-cyclopropyl
acyl	amino acid	OH	O-acetyl
acyl	amino acid	OH	SH
acyl	amino acid	OH	SMe
acyl	amino acid	OH	SEt
acyl	amino acid	OH	S-cyclopropyl
acyl	amino acid	OH	F
acyl	amino acid	OH	Cl
acyl	amino acid	OH	Br
acyl	amino acid	OH	I
H	acyl	OH	H
H	acyl	OH	NH_2
H	acyl	OH	NH-cyclopropyl
H	acyl	OH	NH-methyl
H	acyl	OH	NH-ethyl
H	acyl	OH	NH-acetyl
H	acyl	OH	OH
H	acyl	OH	OMe
H	acyl	OH	OEt
H	acyl	OH	O-cyclopropyl
H	acyl	OH	O-acetyl
H	acyl	OH	SH
H	acyl	OH	SMe
H	acyl	OH	SEt
H	acyl	OH	S-cyclopropyl
H	acyl	OH	F
H	acyl	OH	Cl

R^2	R^3	X^1	Y
H	acyl	OH	Br
H	acyl	OH	I
H	amino acid	OH	H
H	amino acid	OH	NH_2
H	amino acid	OH	NH-cyclopropyl
H	amino acid	OH	NH-methyl
H	amino acid	OH	NH-ethyl
H	amino acid	OH	NH-acetyl
H	amino acid	OH	OH
H	amino acid	OH	OMe
H	amino acid	OH	OEt
H	amino acid	OH	O-cyclopropyl
H	amino acid	OH	O-acetyl
H	amino acid	OH	SH
H	amino acid	OH	SMe
H	amino acid	OH	SEt
H	amino acid	OH	S-cyclopropyl
H	amino acid	OH	F
H	amino acid	OH	Cl
H	amino acid	OH	Br
H	amino acid	OH	I
amino acid	amino acid	OH	H
amino acid	amino acid	OH	NH_2
amino acid	amino acid	OH	NH-cyclopropyl
amino acid	amino acid	OH	NH-methyl
amino acid	amino acid	OH	NH-ethyl
amino acid	amino acid	OH	NH-acetyl
amino acid	amino acid	OH	OH
amino acid	amino acid	OH	OMe
amino acid	amino acid	OH	OEt
amino acid	amino acid	OH	O-cyclopropyl
amino acid	amino acid	OH	O-acetyl
amino acid	amino acid	OH	SH
amino acid	amino acid	OH	SMe
amino acid	amino acid	OH	SEt
amino acid	amino acid	OH	S-cyclopropyl
amino acid	amino acid	OH	F
amino acid	amino acid	OH	Cl
amino acid	amino acid	OH	Br
amino acid	amino acid	OH	I
amino acid	H	OH	H
amino acid	H	OH	NH_2
amino acid	H	OH	NH-cyclopropyl
amino acid	H	OH	NH-methyl

R^2	R^3	X^1	Y
amino acid	H	OH	NH-ethyl
amino acid	H	OH	NH-acetyl
amino acid	H	OH	OH
amino acid	H	OH	OMe
amino acid	H	OH	OEt
amino acid	H	OH	O-cyclopropyl
amino acid	H	OH	O-acetyl
amino acid	H	OH	SH
amino acid	H	OH	SMe
amino acid	H	OH	SEt
amino acid	H	OH	S-cyclopropyl
amino acid	H	OH	F
amino acid	H	OH	Cl
amino acid	H	OH	Br
amino acid	H	OH	I
amino acid	acyl	OH	H
amino acid	acyl	OH	NH_2
amino acid	acyl	OH	NH-cyclopropyl
amino acid	acyl	OH	NH-methyl
amino acid	acyl	OH	NH-ethyl
amino acid	acyl	OH	NH-acetyl
amino acid	acyl	OH	OH
amino acid	acyl	OH	OMe
amino acid	acyl	OH	OEt
amino acid	acyl	OH	O-cyclopropyl
amino acid	acyl	OH	O-acetyl
amino acid	acyl	OH	SH
amino acid	acyl	OH	SMe
amino acid	acyl	OH	SEt
amino acid	acyl	OH	S-cyclopropyl
amino acid	acyl	OH	F
amino acid	acyl	OH	Cl
amino acid	acyl	OH	Br
amino acid	acyl	OH	I
acyl	H	F	H
acyl	H	F	NH_2
acyl	H	F	NH-cyclopropyl
acyl	H	F	NH-methyl
acyl	H	F	NH-ethyl
acyl	H	F	NH-acetyl
acyl	H	F	OH
acyl	H	F	OMe
acyl	H	F	OEt
acyl	H	F	O-cyclopropyl

R^2	R^3	X^1	Y
acyl	H	F	O-acetyl
acyl	H	F	SH
acyl	H	F	SMe
acyl	H	F	SEt
acyl	H	F	S-cyclopropyl
acyl	H	F	F
acyl	H	F	Cl
acyl	H	F	Br
acyl	H	F	I
acyl	acyl	F	H
acyl	acyl	F	NH_2
acyl	acyl	F	NH-cyclopropyl
acyl	acyl	F	NH-methyl
acyl	acyl	F	NH-ethyl
acyl	acyl	F	NH-acetyl
acyl	acyl	F	OH
acyl	acyl	F	OMe
acyl	acyl	F	OEt
acyl	acyl	F	O-cyclopropyl
acyl	acyl	F	O-acetyl
acyl	acyl	F	SH
acyl	acyl	F	SMe
acyl	acyl	F	SEt
acyl	acyl	F	S-cyclopropyl
acyl	acyl	F	F
acyl	acyl	F	Cl
acyl	acyl	F	Br
acyl	acyl	F	I
acyl	amino acid	F	H
acyl	amino acid	F	NH_2
acyl	amino acid	F	NH-cyclopropyl
acyl	amino acid	F	NH-methyl
acyl	amino acid	F	NH-ethyl
acyl	amino acid	F	NH-acetyl
acyl	amino acid	F	OH
acyl	amino acid	F	OMe
acyl	amino acid	F	OEt
acyl	amino acid	F	O-cyclopropyl
acyl	amino acid	F	O-acetyl
acyl	amino acid	F	SH
acyl	amino acid	F	SMe
acyl	amino acid	F	SEt
acyl	amino acid	F	S-cyclopropyl
acyl	amino acid	F	F

R^2	R^3	X^1	Y
acyl	amino acid	F	Cl
acyl	amino acid	F	Br
acyl	amino acid	F	I
H	acyl	F	H
H	acyl	F	NH_2
H	acyl	F	NH-cyclopropyl
H	acyl	F	NH-methyl
H	acyl	F	NH-ethyl
H	acyl	F	NH-acetyl
H	acyl	F	OH
H	acyl	F	OMe
H	acyl	F	OEt
H	acyl	F	O-cyclopropyl
H	acyl	F	O-acetyl
H	acyl	F	SH
H	acyl	F	SMe
H	acyl	F	SEt
H	acyl	F	S-cyclopropyl
H	acyl	F	F
H	acyl	F	Cl
H	acyl	F	Br
H	acyl	F	I
H	amino acid	F	H
H	amino acid	F	NH_2
H	amino acid	F	NH-cyclopropyl
H	amino acid	F	NH-methyl
H	amino acid	F	NH-ethyl
H	amino acid	F	NH-acetyl
H	amino acid	F	OH
H	amino acid	F	OMe
H	amino acid	F	OEt
H	amino acid	F	O-cyclopropyl
H	amino acid	F	O-acetyl
H	amino acid	F	SH
H	amino acid	F	SMe
H	amino acid	F	SEt
H	amino acid	F	S-cyclopropyl
H	amino acid	F	F
H	amino acid	F	Cl
H	amino acid	F	Br
H	amino acid	F	I
amino acid	amino acid	F	H
amino acid	amino acid	F	NH_2
amino acid	amino acid	F	NH-cyclopropyl

R^2	R^3	X^1	Y
amino acid	amino acid	F	NH-methyl
amino acid	amino acid	F	NH-ethyl
amino acid	amino acid	F	NH-acetyl
amino acid	amino acid	F	OH
amino acid	amino acid	F	OMe
amino acid	amino acid	F	OEt
amino acid	amino acid	F	O-cyclopropyl
amino acid	amino acid	F	O-acetyl
amino acid	amino acid	F	SH
amino acid	amino acid	F	SMe
amino acid	amino acid	F	SEt
amino acid	amino acid	F	S-cyclopropyl
amino acid	amino acid	F	F
amino acid	amino acid	F	Cl
amino acid	amino acid	F	Br
amino acid	amino acid	F	I
amino acid	H	F	H
amino acid	H	F	NH_2
amino acid	H	F	NH-cyclopropyl
amino acid	H	F	NH-methyl
amino acid	H	F	NH-ethyl
amino acid	H	F	NH-acetyl
amino acid	H	F	OH
amino acid	H	F	OMe
amino acid	H	F	OEt
amino acid	H	F	O-cyclopropyl
amino acid	H	F	O-acetyl
amino acid	H	F	SH
amino acid	H	F	SMe
amino acid	H	F	SEt
amino acid	H	F	S-cyclopropyl
amino acid	H	F	F
amino acid	H	F	Cl
amino acid	H	F	Br
amino acid	H	F	I
amino acid	acyl	F	H
amino acid	acyl	F	NH_2
amino acid	acyl	F	NH-cyclopropyl
amino acid	acyl	F	NH-methyl
amino acid	acyl	F	NH-ethyl
amino acid	acyl	F	NH-acetyl
amino acid	acyl	F	OH
amino acid	acyl	F	OMe
amino acid	acyl	F	OEt

R^2	R^3	X^1	Y
amino acid	acyl	F	O-cyclopropyl
amino acid	acyl	F	O-acetyl
amino acid	acyl	F	SH
amino acid	acyl	F	SMe
amino acid	acyl	F	SEt
amino acid	acyl	F	S-cyclopropyl
amino acid	acyl	F	F
amino acid	acyl	F	Cl
amino acid	acyl	F	Br
amino acid	acyl	F	I
acyl	H	I	H
acyl	H	I	NH_2
acyl	H	I	NH-cyclopropyl
acyl	H	I	NH-methyl
acyl	H	I	NH-ethyl
acyl	H	I	NH-acetyl
acyl	H	I	OH
acyl	H	I	OMe
acyl	H	I	OEt
acyl	H	I	O-cyclopropyl
acyl	H	I	O-acetyl
acyl	H	I	SH
acyl	H	I	SMe
acyl	H	I	SEt
acyl	H	I	S-cyclopropyl
acyl	H	I	F
acyl	H	I	Cl
acyl	H	I	Br
acyl	H	I	I
acyl	acyl	I	H
acyl	acyl	I	NH_2
acyl	acyl	I	NH-cyclopropyl
acyl	acyl	I	NH-methyl
acyl	acyl	I	NH-ethyl
acyl	acyl	I	NH-acetyl
acyl	acyl	I	OH
acyl	acyl	I	OMe
acyl	acyl	I	OEt
acyl	acyl	I	O-cyclopropyl
acyl	acyl	I	O-acetyl
acyl	acyl	I	SH
acyl	acyl	I	SMe
acyl	acyl	I	SEt
acyl	acyl	I	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	acyl	I	F
acyl	acyl	I	Cl
acyl	acyl	I	Br
acyl	acyl	I	I
acyl	amino acid	I	H
acyl	amino acid	I	NH_2
acyl	amino acid	I	NH-cyclopropyl
acyl	amino acid	I	NH-methyl
acyl	amino acid	I	NH-ethyl
acyl	amino acid	I	NH-acetyl
acyl	amino acid	I	OH
acyl	amino acid	I	OMe
acyl	amino acid	I	OEt
acyl	amino acid	I	O-cyclopropyl
acyl	amino acid	I	O-acetyl
acyl	amino acid	I	SH
acyl	amino acid	I	SMe
acyl	amino acid	I	SEt
acyl	amino acid	I	S-cyclopropyl
acyl	amino acid	I	F
acyl	amino acid	I	Cl
acyl	amino acid	I	Br
acyl	amino acid	I	I
H	acyl	I	H
H	acyl	I	NH_2
H	acyl	I	NH-cyclopropyl
H	acyl	I	NH-methyl
H	acyl	I	NH-ethyl
H	acyl	I	NH-acetyl
H	acyl	I	OH
H	acyl	I	OMe
H	acyl	I	OEt
H	acyl	I	O-cyclopropyl
H	acyl	I	O-acetyl
H	acyl	I	SH
H	acyl	I	SMe
H	acyl	I	SEt
H	acyl	I	S-cyclopropyl
H	acyl	I	F
H	acyl	I	Cl
H	acyl	I	Br
H	acyl	I	I
H	amino acid	I	H
H	amino acid	I	NH_2

R^2	R^3	X^1	Y
H	amino acid	I	NH-cyclopropyl
H	amino acid	I	NH-methyl
H	amino acid	I	NH-ethyl
H	amino acid	I	NH-acetyl
H	amino acid	I	OH
H	amino acid	I	OMe
H	amino acid	I	OEt
H	amino acid	I	O-cyclopropyl
H	amino acid	I	O-acetyl
H	amino acid	I	SH
H	amino acid	I	SMe
H	amino acid	I	SEt
H	amino acid	I	S-cyclopropyl
H	amino acid	I	F
H	amino acid	I	Cl
H	amino acid	I	Br
H	amino acid	I	I
amino acid	amino acid	I	H
amino acid	amino acid	I	NH_2
amino acid	amino acid	I	NH-cyclopropyl
amino acid	amino acid	I	NH-methyl
amino acid	amino acid	I	NH-ethyl
amino acid	amino acid	I	NH-acetyl
amino acid	amino acid	I	OH
amino acid	amino acid	I	OMe
amino acid	amino acid	I	OEt
amino acid	amino acid	I	O-cyclopropyl
amino acid	amino acid	I	O-acetyl
amino acid	amino acid	I	SH
amino acid	amino acid	I	SMe
amino acid	amino acid	I	SEt
amino acid	amino acid	I	S-cyclopropyl
amino acid	amino acid	I	F
amino acid	amino acid	I	Cl
amino acid	amino acid	I	Br
amino acid	amino acid	I	I
amino acid	H	I	H
amino acid	H	I	NH_2
amino acid	H	I	NH-cyclopropyl
amino acid	H	I	NH-methyl
amino acid	H	I	NH-ethyl
amino acid	H	I	NH-acetyl
amino acid	H	I	OH
amino acid	H	I	OMe

R^2	R^3	X^1	Y
amino acid	H	I	OEt
amino acid	H	I	O-cyclopropyl
amino acid	H	I	O-acetyl
amino acid	H	I	SH
amino acid	H	I	SMe
amino acid	H	I	SEt
amino acid	H	I	S-cyclopropyl
amino acid	H	I	F
amino acid	H	I	Cl
amino acid	H	I	Br
amino acid	H	I	I
amino acid	acyl	I	H
amino acid	acyl	I	NH_2
amino acid	acyl	I	NH-cyclopropyl
amino acid	acyl	I	NH-methyl
amino acid	acyl	I	NH-ethyl
amino acid	acyl	I	NH-acetyl
amino acid	acyl	I	OH
amino acid	acyl	I	OMe
amino acid	acyl	I	OEt
amino acid	acyl	I	O-cyclopropyl
amino acid	acyl	I	O-acetyl
amino acid	acyl	I	SH
amino acid	acyl	I	SMe
amino acid	acyl	I	SEt
amino acid	acyl	I	S-cyclopropyl
amino acid	acyl	I	F
amino acid	acyl	I	Cl
amino acid	acyl	I	Br
amino acid	acyl	I	I

Table 3

R^2	R^3	R^6	X	Base
acyl	H	CH_3	O	Thymine
acyl	H	CH_3	O	Uracil
acyl	H	CH_3	O	Guanine
acyl	H	CH_3	O	Cytosine
acyl	H	CH_3	O	Adenine
acyl	H	CH_3	O	Hypoxanthine
acyl	H	CH_3	O	5-Fluorouracil
acyl	H	CH_3	O	8-Fluoroguanine
acyl	H	CH_3	O	5-Fluorocytosine
acyl	H	CH_3	O	8-Fluoroadenine
acyl	H	CH_3	O	2-Fluoroadenine
acyl	H	CH_3	O	2,8-Difluoroadenine
acyl	H	CH_3	O	2-Fluorohypoxanthine
acyl	H	CH_3	O	8-Fluorohypoxanthine
acyl	H	CH_3	O	2,8-Difluorohypoxanthine
acyl	H	CH_3	O	2-Aminoadenine
acyl	H	CH_3	O	2-Amino-8-fluoroadenine
acyl	H	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-Aminohypoxanthine
acyl	H	CH_3	O	2-N-acetylguanine
acyl	H	CH_3	O	4-N-acetylcytosine
acyl	H	CH_3	O	6-N-acetyladenine
acyl	H	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylaminoadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	O	Thymine
acyl	acyl	CH_3	O	Uracil
acyl	acyl	CH_3	O	Guanine
acyl	acyl	CH_3	O	Cytosine
acyl	acyl	CH_3	O	Adenine
acyl	acyl	CH_3	O	Hypoxanthine
acyl	acyl	CH_3	O	5-Fluorouracil
acyl	acyl	CH_3	O	8-Fluoroguanine
acyl	acyl	CH_3	O	5-Fluorocytosine
acyl	acyl	CH_3	O	8-Fluoroadenine
acyl	acyl	CH_3	O	2-Fluoroadenine
acyl	acyl	CH_3	O	2,8-Difluoroadenine
acyl	acyl	CH_3	O	2-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CH_3	O	8-Fluorohypoxanthine
acyl	acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminoadenine
acyl	acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylguanine
acyl	acyl	CH_3	O	4-N-acetylcytosine
acyl	acyl	CH_3	O	6-N-acetyladenine
acyl	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylaminoadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	O	Thymine
acyl	amino acid	CH_3	O	Uracil
acyl	amino acid	CH_3	O	Guanine
acyl	amino acid	CH_3	O	Cytosine
acyl	amino acid	CH_3	O	Adenine
acyl	amino acid	CH_3	O	Hypoxanthine
acyl	amino acid	CH_3	O	5-Fluorouracil
acyl	amino acid	CH_3	O	8-Fluoroguanine
acyl	amino acid	CH_3	O	5-Fluorocytosine
acyl	amino acid	CH_3	O	8-Fluoroadenine
acyl	amino acid	CH_3	O	2-Fluoroadenine
acyl	amino acid	CH_3	O	2,8-Difluoroadenine
acyl	amino acid	CH_3	O	2-Fluorohypoxanthine
acyl	amino acid	CH_3	O	8-Fluorohypoxanthine
acyl	amino acid	CH_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminoadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylguanine
acyl	amino acid	CH_3	O	4-N-acetylcytosine
acyl	amino acid	CH_3	O	6-N-acetyladenine
acyl	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	O	2-N-acetylaminoadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
H	acyl	CH_3	O	Thymine
H	acyl	CH_3	O	Uracil
H	acyl	CH_3	O	Guanine
H	acyl	CH_3	O	Cytosine
H	acyl	CH_3	O	Adenine
H	acyl	CH_3	O	Hypoxanthine
H	acyl	CH_3	O	5-Fluorouracil
H	acyl	CH_3	O	8-Fluoroguanine
H	acyl	CH_3	O	5-Fluorocytosine
H	acyl	CH_3	O	8-Fluoroadenine
H	acyl	CH_3	O	2-Fluoroadenine
H	acyl	CH_3	O	2,8-Difluoroadenine
H	acyl	CH_3	O	2-Fluorohypoxanthine
H	acyl	CH_3	O	8-Fluorohypoxanthine
H	acyl	CH_3	O	2,8-Difluorohypoxanthine
H	acyl	CH_3	O	2-Aminoadenine
H	acyl	CH_3	O	2-Amino-8-fluoroadenine
H	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-Aminohypoxanthine
H	acyl	CH_3	O	2-N-acetylguanine
H	acyl	CH_3	O	4-N-acetylcytosine
H	acyl	CH_3	O	6-N-acetyladenine
H	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylaminoadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	O	Thymine
H	amino acid	CH_3	O	Uracil
H	amino acid	CH_3	O	Guanine
H	amino acid	CH_3	O	Cytosine
H	amino acid	CH_3	O	Adenine
H	amino acid	CH_3	O	Hypoxanthine
H	amino acid	CH_3	O	5-Fluorouracil
H	amino acid	CH_3	O	8-Fluoroguanine
H	amino acid	CH_3	O	5-Fluorocytosine
H	amino acid	CH_3	O	8-Fluoroadenine
H	amino acid	CH_3	O	2-Fluoroadenine

R^2	R^3	R^6	X	Base
H	amino acid	CH_3	O	2,8-Difluoroadenine
H	amino acid	CH_3	O	2-Fluorohypoxanthine
H	amino acid	CH_3	O	8-Fluorohypoxanthine
H	amino acid	CH_3	O	2,8-Difluorohypoxanthine
H	amino acid	CH_3	O	2-Aminoadenine
H	amino acid	CH_3	O	2-Amino-8-fluoroadenine
H	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-Aminohypoxanthine
H	amino acid	CH_3	O	2-N-acetylguanine
H	amino acid	CH_3	O	4-N-acetylcytosine
H	amino acid	CH_3	O	6-N-acetyladenine
H	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylaminoadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	O	Thymine
amino acid	amino acid	CH_3	O	Uracil
amino acid	amino acid	CH_3	O	Guanine
amino acid	amino acid	CH_3	O	Cytosine
amino acid	amino acid	CH_3	O	Adenine
amino acid	amino acid	CH_3	O	Hypoxanthine
amino acid	amino acid	CH_3	O	5-Fluorouracil
amino acid	amino acid	CH_3	O	8-Fluoroguanine
amino acid	amino acid	CH_3	O	5-Fluorocytosine
amino acid	amino acid	CH_3	O	8-Fluoroadenine
amino acid	amino acid	CH_3	O	2-Fluoroadenine
amino acid	amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminoadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylguanine
amino acid	amino acid	CH_3	O	4-N-acetylcytosine
amino acid	amino acid	CH_3	O	6-N-acetyladenine
amino acid	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	O	Thymine
amino acid	H	CH_3	O	Uracil
amino acid	H	CH_3	O	Guanine
amino acid	H	CH_3	O	Cytosine
amino acid	H	CH_3	O	Adenine
amino acid	H	CH_3	O	Hypoxanthine
amino acid	H	CH_3	O	5-Fluorouracil
amino acid	H	CH_3	O	8-Fluoroguanine
amino acid	H	CH_3	O	5-Fluorocytosine
amino acid	H	CH_3	O	8-Fluoroadenine
amino acid	H	CH_3	O	2-Fluoroadenine
amino acid	H	CH_3	O	2,8-Difluoroadenine
amino acid	H	CH_3	O	2-Fluorohypoxanthine
amino acid	H	CH_3	O	8-Fluorohypoxanthine
amino acid	H	CH_3	O	2,8-Difluorohypoxanthine
amino acid	H	CH_3	O	2-Aminoadenine
amino acid	H	CH_3	O	2-Amino-8-fluoroadenine
amino acid	H	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-Aminohypoxanthine
amino acid	H	CH_3	O	2-N-acetylguanine
amino acid	H	CH_3	O	4-N-acetylcytosine
amino acid	H	CH_3	O	6-N-acetyladenine
amino acid	H	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylaminoadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	O	Thymine
amino acid	acyl	CH_3	O	Uracil
amino acid	acyl	CH_3	O	Guanine
amino acid	acyl	CH_3	O	Cytosine
amino acid	acyl	CH_3	O	Adenine
amino acid	acyl	CH_3	O	Hypoxanthine
amino acid	acyl	CH_3	O	5-Fluorouracil
amino acid	acyl	CH_3	O	8-Fluoroguanine
amino acid	acyl	CH_3	O	5-Fluorocytosine

R^2	R^3	R^6	X	Base
amino acid	acyl	CH_3	O	8-Fluoroadenine
amino acid	acyl	CH_3	O	2-Fluoroadenine
amino acid	acyl	CH_3	O	2,8-Difluoroadenine
amino acid	acyl	CH_3	O	2-Fluorohypoxanthine
amino acid	acyl	CH_3	O	8-Fluorohypoxanthine
amino acid	acyl	CH_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminoadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylguanine
amino acid	acyl	CH_3	O	4-N-acetylcytosine
amino acid	acyl	CH_3	O	6-N-acetyladenine
amino acid	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylaminoadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	H	CH_3	S	Thymine
acyl	H	CH_3	S	Uracil
acyl	H	CH_3	S	Guanine
acyl	H	CH_3	S	Cytosine
acyl	H	CH_3	S	Adenine
acyl	H	CH_3	S	Hypoxanthine
acyl	H	CH_3	S	5-Fluorouracil
acyl	H	CH_3	S	8-Fluoroguanine
acyl	H	CH_3	S	5-Fluorocytosine
acyl	H	CH_3	S	8-Fluoroadenine
acyl	H	CH_3	S	2-Fluoroadenine
acyl	H	CH_3	S	2,8-Difluoroadenine
acyl	H	CH_3	S	2-Fluorohypoxanthine
acyl	H	CH_3	S	8-Fluorohypoxanthine
acyl	H	CH_3	S	2,8-Difluorohypoxanthine
acyl	H	CH_3	S	2-Aminoadenine
acyl	H	CH_3	S	2-Amino-8-fluoroadenine
acyl	H	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-Aminohypoxanthine
acyl	H	CH_3	S	2-N-acetylguanine
acyl	H	CH_3	S	4-N-acetylcytosine
acyl	H	CH_3	S	6-N-acetyladenine
acyl	H	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	S	4-N-acetyl-5-fluorocytosine

R^2	R^3	R^6	X	Base
acyl	H	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylaminoadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	S	Thymine
acyl	acyl	CH_3	S	Uracil
acyl	acyl	CH_3	S	Guanine
acyl	acyl	CH_3	S	Cytosine
acyl	acyl	CH_3	S	Adenine
acyl	acyl	CH_3	S	Hypoxanthine
acyl	acyl	CH_3	S	5-Fluorouracil
acyl	acyl	CH_3	S	8-Fluoroguanine
acyl	acyl	CH_3	S	5-Fluorocytosine
acyl	acyl	CH_3	S	8-Fluoroadenine
acyl	acyl	CH_3	S	2-Fluoroadenine
acyl	acyl	CH_3	S	2,8-Difluoroadenine
acyl	acyl	CH_3	S	2-Fluorohypoxanthine
acyl	acyl	CH_3	S	8-Fluorohypoxanthine
acyl	acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminoadenine
acyl	acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylguanine
acyl	acyl	CH_3	S	4-N-acetylcytosine
acyl	acyl	CH_3	S	6-N-acetyladenine
acyl	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylaminoadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	S	Thymine
acyl	amino acid	CH_3	S	Uracil
acyl	amino acid	CH_3	S	Guanine
acyl	amino acid	CH_3	S	Cytosine
acyl	amino acid	CH_3	S	Adenine
acyl	amino acid	CH_3	S	Hypoxanthine
acyl	amino acid	CH_3	S	5-Fluorouracil

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	S	8-Fluoroguanine
acyl	amino acid	CH_3	S	5-Fluorocytosine
acyl	amino acid	CH_3	S	8-Fluoroadenine
acyl	amino acid	CH_3	S	2-Fluoroadenine
acyl	amino acid	CH_3	S	2,8-Difluoroadenine
acyl	amino acid	CH_3	S	2-Fluorohypoxanthine
acyl	amino acid	CH_3	S	8-Fluorohypoxanthine
acyl	amino acid	CH_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminoadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylguanine
acyl	amino acid	CH_3	S	4-N-acetylcytosine
acyl	amino acid	CH_3	S	6-N-acetyladenine
acyl	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylaminoadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
H	acyl	CH_3	S	Thymine
H	acyl	CH_3	S	Uracil
H	acyl	CH_3	S	Guanine
H	acyl	CH_3	S	Cytosine
H	acyl	CH_3	S	Adenine
H	acyl	CH_3	S	Hypoxanthine
H	acyl	CH_3	S	5-Fluorouracil
H	acyl	CH_3	S	8-Fluoroguanine
H	acyl	CH_3	S	5-Fluorocytosine
H	acyl	CH_3	S	8-Fluoroadenine
H	acyl	CH_3	S	2-Fluoroadenine
H	acyl	CH_3	S	2,8-Difluoroadenine
H	acyl	CH_3	S	2-Fluorohypoxanthine
H	acyl	CH_3	S	8-Fluorohypoxanthine
H	acyl	CH_3	S	2,8-Difluorohypoxanthine
H	acyl	CH_3	S	2-Aminoadenine
H	acyl	CH_3	S	2-Amino-8-fluoroadenine
H	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-Aminohypoxanthine
H	acyl	CH_3	S	2-N-acetylguanine
H	acyl	CH_3	S	4-N-acetylcytosine
H	acyl	CH_3	S	6-N-acetyladenine

R^2	R^3	R^6	X	Base
H	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylaminoadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	S	Thymine
H	amino acid	CH_3	S	Uracil
H	amino acid	CH_3	S	Guanine
H	amino acid	CH_3	S	Cytosine
H	amino acid	CH_3	S	Adenine
H	amino acid	CH_3	S	Hypoxanthine
H	amino acid	CH_3	S	5-Fluorouracil
H	amino acid	CH_3	S	8-Fluoroguanine
H	amino acid	CH_3	S	5-Fluorocytosine
H	amino acid	CH_3	S	8-Fluoroadenine
H	amino acid	CH_3	S	2-Fluoroadenine
H	amino acid	CH_3	S	2,8-Difluoroadenine
H	amino acid	CH_3	S	2-Fluorohypoxanthine
H	amino acid	CH_3	S	8-Fluorohypoxanthine
H	amino acid	CH_3	S	2,8-Difluorohypoxanthine
H	amino acid	CH_3	S	2-Aminoadenine
H	amino acid	CH_3	S	2-Amino-8-fluoroadenine
H	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-Aminohypoxanthine
H	amino acid	CH_3	S	2-N-acetylguanine
H	amino acid	CH_3	S	4-N-acetylcytosine
H	amino acid	CH_3	S	6-N-acetyladenine
H	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylaminoadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	S	Thymine
amino acid	amino acid	CH_3	S	Uracil
amino acid	amino acid	CH_3	S	Guanine
amino acid	amino acid	CH_3	S	Cytosine
amino acid	amino acid	CH_3	S	Adenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	S	Hypoxanthine
amino acid	amino acid	CH_3	S	5-Fluorouracil
amino acid	amino acid	CH_3	S	8-Fluoroguanine
amino acid	amino acid	CH_3	S	5-Fluorocytosine
amino acid	amino acid	CH_3	S	8-Fluoroadenine
amino acid	amino acid	CH_3	S	2-Fluoroadenine
amino acid	amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminoadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylguanine
amino acid	amino acid	CH_3	S	4-N-acetylcytosine
amino acid	amino acid	CH_3	S	6-N-acetyladenine
amino acid	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	S	Thymine
amino acid	H	CH_3	S	Uracil
amino acid	H	CH_3	S	Guanine
amino acid	H	CH_3	S	Cytosine
amino acid	H	CH_3	S	Adenine
amino acid	H	CH_3	S	Hypoxanthine
amino acid	H	CH_3	S	5-Fluorouracil
amino acid	H	CH_3	S	8-Fluoroguanine
amino acid	H	CH_3	S	5-Fluorocytosine
amino acid	H	CH_3	S	8-Fluoroadenine
amino acid	H	CH_3	S	2-Fluoroadenine
amino acid	H	CH_3	S	2,8-Difluoroadenine
amino acid	H	CH_3	S	2-Fluorohypoxanthine
amino acid	H	CH_3	S	8-Fluorohypoxanthine
amino acid	H	CH_3	S	2,8-Difluorohypoxanthine
amino acid	H	CH_3	S	2-Aminoadenine
amino acid	H	CH_3	S	2-Amino-8-fluoroadenine
amino acid	H	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-Aminohypoxanthine
amino acid	H	CH_3	S	2-N-acetylguanine

R^2	R^3	R^6	X	Base
amino acid	H	CH_3	S	4-N-acetylcytosine
amino acid	H	CH_3	S	6-N-acetyladenine
amino acid	H	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylaminoadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	S	Thymine
amino acid	acyl	CH_3	S	Uracil
amino acid	acyl	CH_3	S	Guanine
amino acid	acyl	CH_3	S	Cytosine
amino acid	acyl	CH_3	S	Adenine
amino acid	acyl	CH_3	S	Hypoxanthine
amino acid	acyl	CH_3	S	5-Fluorouracil
amino acid	acyl	CH_3	S	8-Fluoroguanine
amino acid	acyl	CH_3	S	5-Fluorocytosine
amino acid	acyl	CH_3	S	8-Fluoroadenine
amino acid	acyl	CH_3	S	2-Fluoroadenine
amino acid	acyl	CH_3	S	2,8-Difluoroadenine
amino acid	acyl	CH_3	S	2-Fluorohypoxanthine
amino acid	acyl	CH_3	S	8-Fluorohypoxanthine
amino acid	acyl	CH_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminoadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylguanine
amino acid	acyl	CH_3	S	4-N-acetylcytosine
amino acid	acyl	CH_3	S	6-N-acetyladenine
amino acid	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylaminoadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	S	Thymine
acyl	H	CF_3	S	Uracil
acyl	H	CF_3	S	Guanine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	S	Cytosine
acyl	H	CF_3	S	Adenine
acyl	H	CF_3	S	Hypoxanthine
acyl	H	CF_3	S	5-Fluorouracil
acyl	H	CF_3	S	8-Fluoroguanine
acyl	H	CF_3	S	5-Fluorocytosine
acyl	H	CF_3	S	8-Fluoroadenine
acyl	H	CF_3	S	2-Fluoroadenine
acyl	H	CF_3	S	2,8-Difluoroadenine
acyl	H	CF_3	S	2-Fluorohypoxanthine
acyl	H	CF_3	S	8-Fluorohypoxanthine
acyl	H	CF_3	S	2,8-Difluorohypoxanthine
acyl	H	CF_3	S	2-Aminoadenine
acyl	H	CF_3	S	2-Amino-8-fluoroadenine
acyl	H	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-Aminohypoxanthine
acyl	H	CF_3	S	2-N-acetylguanine
acyl	H	CF_3	S	4-N-acetylcytosine
acyl	H	CF_3	S	6-N-acetyladenine
acyl	H	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylaminoadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	S	Thymine
acyl	acyl	CF_3	S	Uracil
acyl	acyl	CF_3	S	Guanine
acyl	acyl	CF_3	S	Cytosine
acyl	acyl	CF_3	S	Adenine
acyl	acyl	CF_3	S	Hypoxanthine
acyl	acyl	CF_3	S	5-Fluorouracil
acyl	acyl	CF_3	S	8-Fluoroguanine
acyl	acyl	CF_3	S	5-Fluorocytosine
acyl	acyl	CF_3	S	8-Fluoroadenine
acyl	acyl	CF_3	S	2-Fluoroadenine
acyl	acyl	CF_3	S	2,8-Difluoroadenine
acyl	acyl	CF_3	S	2-Fluorohypoxanthine
acyl	acyl	CF_3	S	8-Fluorohypoxanthine
acyl	acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	S	2-Aminoadenine
acyl	acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CF_3	S	2-Aminohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylguanine
acyl	acyl	CF_3	S	4-N-acetylcytosine
acyl	acyl	CF_3	S	6-N-acetyladenine
acyl	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylaminoadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	S	Thymine
acyl	amino acid	CF_3	S	Uracil
acyl	amino acid	CF_3	S	Guanine
acyl	amino acid	CF_3	S	Cytosine
acyl	amino acid	CF_3	S	Adenine
acyl	amino acid	CF_3	S	Hypoxanthine
acyl	amino acid	CF_3	S	5-Fluorouracil
acyl	amino acid	CF_3	S	8-Fluoroguanine
acyl	amino acid	CF_3	S	5-Fluorocytosine
acyl	amino acid	CF_3	S	8-Fluoroadenine
acyl	amino acid	CF_3	S	2-Fluoroadenine
acyl	amino acid	CF_3	S	2,8-Difluoroadenine
acyl	amino acid	CF_3	S	2-Fluorohypoxanthine
acyl	amino acid	CF_3	S	8-Fluorohypoxanthine
acyl	amino acid	CF_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminoadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylguanine
acyl	amino acid	CF_3	S	4-N-acetylcytosine
acyl	amino acid	CF_3	S	6-N-acetyladenine
acyl	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylaminoadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
H	acyl	CF_3	S	Thymine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	S	Uracil
H	acyl	CF_3	S	Guanine
H	acyl	CF_3	S	Cytosine
H	acyl	CF_3	S	Adenine
H	acyl	CF_3	S	Hypoxanthine
H	acyl	CF_3	S	5-Fluorouracil
H	acyl	CF_3	S	8-Fluoroguanine
H	acyl	CF_3	S	5-Fluorocytosine
H	acyl	CF_3	S	8-Fluoroadenine
H	acyl	CF_3	S	2-Fluoroadenine
H	acyl	CF_3	S	2,8-Difluoroadenine
H	acyl	CF_3	S	2-Fluorohypoxanthine
H	acyl	CF_3	S	8-Fluorohypoxanthine
H	acyl	CF_3	S	2,8-Difluorohypoxanthine
H	acyl	CF_3	S	2-Aminoadenine
H	acyl	CF_3	S	2-Amino-8-fluoroadenine
H	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-Aminohypoxanthine
H	acyl	CF_3	S	2-N-acetylguanine
H	acyl	CF_3	S	4-N-acetylcytosine
H	acyl	CF_3	S	6-N-acetyladenine
H	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylaminoadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	S	Thymine
H	amino acid	CF_3	S	Uracil
H	amino acid	CF_3	S	Guanine
H	amino acid	CF_3	S	Cytosine
H	amino acid	CF_3	S	Adenine
H	amino acid	CF_3	S	Hypoxanthine
H	amino acid	CF_3	S	5-Fluorouracil
H	amino acid	CF_3	S	8-Fluoroguanine
H	amino acid	CF_3	S	5-Fluorocytosine
H	amino acid	CF_3	S	8-Fluoroadenine
H	amino acid	CF_3	S	2-Fluoroadenine
H	amino acid	CF_3	S	2,8-Difluoroadenine
H	amino acid	CF_3	S	2-Fluorohypoxanthine
H	amino acid	CF_3	S	8-Fluorohypoxanthine
H	amino acid	CF_3	S	2,8-Difluorohypoxanthine
H	amino acid	CF_3	S	2-Aminoadenine

R^2	R^3	R^6	X	Base
H	amino acid	CF_3	S	2-Amino-8-fluoroadenine
H	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-Aminohypoxanthine
H	amino acid	CF_3	S	2-N-acetylguanine
H	amino acid	CF_3	S	4-N-acetylcytosine
H	amino acid	CF_3	S	6-N-acetyladenine
H	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylaminoadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	S	Thymine
amino acid	amino acid	CF_3	S	Uracil
amino acid	amino acid	CF_3	S	Guanine
amino acid	amino acid	CF_3	S	Cytosine
amino acid	amino acid	CF_3	S	Adenine
amino acid	amino acid	CF_3	S	Hypoxanthine
amino acid	amino acid	CF_3	S	5-Fluorouracil
amino acid	amino acid	CF_3	S	8-Fluoroguanine
amino acid	amino acid	CF_3	S	5-Fluorocytosine
amino acid	amino acid	CF_3	S	8-Fluoroadenine
amino acid	amino acid	CF_3	S	2-Fluoroadenine
amino acid	amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminoadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	amino acid	CF_3	S	2-N-acetylguanine
amino acid	amino acid	CF_3	S	4-N-acetylcytosine
amino acid	amino acid	CF_3	S	6-N-acetyladenine
amino acid	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	S	Thymine
amino acid	H	CF_3	S	Uracil
amino acid	H	CF_3	S	Guanine
amino acid	H	CF_3	S	Cytosine
amino acid	H	CF_3	S	Adenine
amino acid	H	CF_3	S	Hypoxanthine
amino acid	H	CF_3	S	5-Fluorouracil
amino acid	H	CF_3	S	8-Fluoroguanine
amino acid	H	CF_3	S	5-Fluorocytosine
amino acid	H	CF_3	S	8-Fluoroadenine
amino acid	H	CF_3	S	2-Fluoroadenine
amino acid	H	CF_3	S	2,8-Difluoroadenine
amino acid	H	CF_3	S	2-Fluorohypoxanthine
amino acid	H	CF_3	S	8-Fluorohypoxanthine
amino acid	H	CF_3	S	2,8-Difluorohypoxanthine
amino acid	H	CF_3	S	2-Aminoadenine
amino acid	H	CF_3	S	2-Amino-8-fluoroadenine
amino acid	H	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-Aminohypoxanthine
amino acid	H	CF_3	S	2-N-acetylguanine
amino acid	H	CF_3	S	4-N-acetylcytosine
amino acid	H	CF_3	S	6-N-acetyladenine
amino acid	H	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylaminoadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	S	Thymine
amino acid	acyl	CF_3	S	Uracil
amino acid	acyl	CF_3	S	Guanine
amino acid	acyl	CF_3	S	Cytosine
amino acid	acyl	CF_3	S	Adenine
amino acid	acyl	CF_3	S	Hypoxanthine
amino acid	acyl	CF_3	S	5-Fluorouracil
amino acid	acyl	CF_3	S	8-Fluoroguanine
amino acid	acyl	CF_3	S	5-Fluorocytosine
amino acid	acyl	CF_3	S	8-Fluoroadenine
amino acid	acyl	CF_3	S	2-Fluoroadenine
amino acid	acyl	CF_3	S	2,8-Difluoroadenine
amino acid	acyl	CF_3	S	2-Fluorohypoxanthine
amino acid	acyl	CF_3	S	8-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	acyl	CF_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminoadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylguanine
amino acid	acyl	CF_3	S	4-N-acetylcytosine
amino acid	acyl	CF_3	S	6-N-acetyladenine
amino acid	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylaminoadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	O	Thymine
acyl	H	CF_3	O	Uracil
acyl	H	CF_3	O	Guanine
acyl	H	CF_3	O	Cytosine
acyl	H	CF_3	O	Adenine
acyl	H	CF_3	O	Hypoxanthine
acyl	H	CF_3	O	5-Fluorouracil
acyl	H	CF_3	O	8-Fluoroguanine
acyl	H	CF_3	O	5-Fluorocytosine
acyl	H	CF_3	O	8-Fluoroadenine
acyl	H	CF_3	O	2-Fluoroadenine
acyl	H	CF_3	O	2,8-Difluoroadenine
acyl	H	CF_3	O	2-Fluorohypoxanthine
acyl	H	CF_3	O	8-Fluorohypoxanthine
acyl	H	CF_3	O	2,8-Difluorohypoxanthine
acyl	H	CF_3	O	2-Aminoadenine
acyl	H	CF_3	O	2-Amino-8-fluoroadenine
acyl	H	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-Aminohypoxanthine
acyl	H	CF_3	O	2-N-acetylguanine
acyl	H	CF_3	O	4-N-acetylcytosine
acyl	H	CF_3	O	6-N-acetyladenine
acyl	H	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylaminoadenine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	O	Thymine
acyl	acyl	CF_3	O	Uracil
acyl	acyl	CF_3	O	Guanine
acyl	acyl	CF_3	O	Cytosine
acyl	acyl	CF_3	O	Adenine
acyl	acyl	CF_3	O	Hypoxanthine
acyl	acyl	CF_3	O	5-Fluorouracil
acyl	acyl	CF_3	O	8-Fluoroguanine
acyl	acyl	CF_3	O	5-Fluorocytosine
acyl	acyl	CF_3	O	8-Fluoroadenine
acyl	acyl	CF_3	O	2-Fluoroadenine
acyl	acyl	CF_3	O	2,8-Difluoroadenine
acyl	acyl	CF_3	O	2-Fluorohypoxanthine
acyl	acyl	CF_3	O	8-Fluorohypoxanthine
acyl	acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminoadenine
acyl	acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylguanine
acyl	acyl	CF_3	O	4-N-acetylcytosine
acyl	acyl	CF_3	O	6-N-acetyladenine
acyl	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylaminoadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	O	Thymine
acyl	amino acid	CF_3	O	Uracil
acyl	amino acid	CF_3	O	Guanine
acyl	amino acid	CF_3	O	Cytosine
acyl	amino acid	CF_3	O	Adenine
acyl	amino acid	CF_3	O	Hypoxanthine
acyl	amino acid	CF_3	O	5-Fluorouracil
acyl	amino acid	CF_3	O	8-Fluoroguanine
acyl	amino acid	CF_3	O	5-Fluorocytosine
acyl	amino acid	CF_3	O	8-Fluoroadenine
acyl	amino acid	CF_3	O	2-Fluoroadenine
acyl	amino acid	CF_3	O	2,8-Difluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CF_3	O	2-Fluorohypoxanthine
acyl	amino acid	CF_3	O	8-Fluorohypoxanthine
acyl	amino acid	CF_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminoadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylguanine
acyl	amino acid	CF_3	O	4-N-acetylcytosine
acyl	amino acid	CF_3	O	6-N-acetyladenine
acyl	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylaminoadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
H	acyl	CF_3	O	Thymine
H	acyl	CF_3	O	Uracil
H	acyl	CF_3	O	Guanine
H	acyl	CF_3	O	Cytosine
H	acyl	CF_3	O	Adenine
H	acyl	CF_3	O	Hypoxanthine
H	acyl	CF_3	O	5-Fluorouracil
H	acyl	CF_3	O	8-Fluoroguanine
H	acyl	CF_3	O	5-Fluorocytosine
H	acyl	CF_3	O	8-Fluoroadenine
H	acyl	CF_3	O	2-Fluoroadenine
H	acyl	CF_3	O	2,8-Difluoroadenine
H	acyl	CF_3	O	2-Fluorohypoxanthine
H	acyl	CF_3	O	8-Fluorohypoxanthine
H	acyl	CF_3	O	2,8-Difluorohypoxanthine
H	acyl	CF_3	O	2-Aminoadenine
H	acyl	CF_3	O	2-Amino-8-fluoroadenine
H	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-Aminohypoxanthine
H	acyl	CF_3	O	2-N-acetylguanine
H	acyl	CF_3	O	4-N-acetylcytosine
H	acyl	CF_3	O	6-N-acetyladenine
H	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2-aminoadenine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylaminoadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	O	Thymine
H	amino acid	CF_3	O	Uracil
H	amino acid	CF_3	O	Guanine
H	amino acid	CF_3	O	Cytosine
H	amino acid	CF_3	O	Adenine
H	amino acid	CF_3	O	Hypoxanthine
H	amino acid	CF_3	O	5-Fluorouracil
H	amino acid	CF_3	O	8-Fluoroguanine
H	amino acid	CF_3	O	5-Fluorocytosine
H	amino acid	CF_3	O	8-Fluoroadenine
H	amino acid	CF_3	O	2-Fluoroadenine
H	amino acid	CF_3	O	2,8-Difluoroadenine
H	amino acid	CF_3	O	2-Fluorohypoxanthine
H	amino acid	CF_3	O	8-Fluorohypoxanthine
H	amino acid	CF_3	O	2,8-Difluorohypoxanthine
H	amino acid	CF_3	O	2-Aminoadenine
H	amino acid	CF_3	O	2-Amino-8-fluoroadenine
H	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-Aminohypoxanthine
H	amino acid	CF_3	O	2-N-acetylguanine
H	amino acid	CF_3	O	4-N-acetylcytosine
H	amino acid	CF_3	O	6-N-acetyladenine
H	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylaminoadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	O	Thymine
amino acid	amino acid	CF_3	O	Uracil
amino acid	amino acid	CF_3	O	Guanine
amino acid	amino acid	CF_3	O	Cytosine
amino acid	amino acid	CF_3	O	Adenine
amino acid	amino acid	CF_3	O	Hypoxanthine
amino acid	amino acid	CF_3	O	5-Fluorouracil
amino acid	amino acid	CF_3	O	8-Fluoroguanine
amino acid	amino acid	CF_3	O	5-Fluorocytosine
amino acid	amino acid	CF_3	O	8-Fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	O	2-Fluoroadenine
amino acid	amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminoadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylguanine
amino acid	amino acid	CF_3	O	4-N-acetylcytosine
amino acid	amino acid	CF_3	O	6-N-acetyladenine
amino acid	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	O	Thymine
amino acid	H	CF_3	O	Uracil
amino acid	H	CF_3	O	Guanine
amino acid	H	CF_3	O	Cytosine
amino acid	H	CF_3	O	Adenine
amino acid	H	CF_3	O	Hypoxanthine
amino acid	H	CF_3	O	5-Fluorouracil
amino acid	H	CF_3	O	8-Fluoroguanine
amino acid	H	CF_3	O	5-Fluorocytosine
amino acid	H	CF_3	O	8-Fluoroadenine
amino acid	H	CF_3	O	2-Fluoroadenine
amino acid	H	CF_3	O	2,8-Difluoroadenine
amino acid	H	CF_3	O	2-Fluorohypoxanthine
amino acid	H	CF_3	O	8-Fluorohypoxanthine
amino acid	H	CF_3	O	2,8-Difluorohypoxanthine
amino acid	H	CF_3	O	2-Aminoadenine
amino acid	H	CF_3	O	2-Amino-8-fluoroadenine
amino acid	H	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-Aminohypoxanthine
amino acid	H	CF_3	O	2-N-acetylguanine
amino acid	H	CF_3	O	4-N-acetylcytosine
amino acid	H	CF_3	O	6-N-acetyladenine
amino acid	H	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	O	6-N-acetyl-2-fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylaminoadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	O	Thymine
amino acid	acyl	CF_3	O	Uracil
amino acid	acyl	CF_3	O	Guanine
amino acid	acyl	CF_3	O	Cytosine
amino acid	acyl	CF_3	O	Adenine
amino acid	acyl	CF_3	O	Hypoxanthine
amino acid	acyl	CF_3	O	5-Fluorouracil
amino acid	acyl	CF_3	O	8-Fluoroguanine
amino acid	acyl	CF_3	O	5-Fluorocytosine
amino acid	acyl	CF_3	O	8-Fluoroadenine
amino acid	acyl	CF_3	O	2-Fluoroadenine
amino acid	acyl	CF_3	O	2,8-Difluoroadenine
amino acid	acyl	CF_3	O	2-Fluorohypoxanthine
amino acid	acyl	CF_3	O	8-Fluorohypoxanthine
amino acid	acyl	CF_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminoadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylguanine
amino acid	acyl	CF_3	O	4-N-acetylcytosine
amino acid	acyl	CF_3	O	6-N-acetyladenine
amino acid	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylaminoadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylaminohypoxanthine

Table 4

R^2	R^6	X	Base
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine
amino acid	CH_3	O	2,8-Difluoroadenine

R^2	R^6	X	Base
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine

R^2	R^6	X	Base
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine

R^2	R^6	X	Base
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine

R^2	R^6	X	Base
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine

Table 5

R^2	R^6	X	Base
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine
amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine

R^2	R^6	X	Base
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^6	X	Base
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine

R^2	R^6	X	Base
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine

R^2	R^6	X	Base
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine

Table 6

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	Thymine	F	H
CH_3	O-acyl	F	O	Uracil	F	H
CH_3	O-acyl	F	O	Guanine	F	H
CH_3	O-acyl	F	O	Cytosine	F	H
CH_3	O-acyl	F	O	Adenine	F	H
CH_3	O-acyl	F	O	Hypoxanthine	F	H
CH_3	O-acyl	F	O	5-Fluorouracil	F	H
CH_3	O-acyl	F	O	8-Fluoroguanine	F	H
CH_3	O-acyl	F	O	5-Fluorocytosine	F	H
CH_3	O-acyl	F	O	8-Fluoroadenine	F	H
CH_3	O-acyl	F	O	2-Fluoroadenine	F	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2-Aminoadenine	F	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	F	O	2-N-acetylguanine	F	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	F	O	6-N-acetyladenine	F	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	F	O	Thymine	F	O-amino acid
CH_3	O-acyl	F	O	Uracil	F	O-amino acid
CH_3	O-acyl	F	O	Guanine	F	O-amino acid
CH_3	O-acyl	F	O	Cytosine	F	O-amino acid
CH_3	O-acyl	F	O	Adenine	F	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	Thymine	F	O-acyl
CH_3	O-acyl	F	O	Uracil	F	O-acyl
CH_3	O-acyl	F	O	Guanine	F	O-acyl
CH_3	O-acyl	F	O	Cytosine	F	O-acyl
CH_3	O-acyl	F	O	Adenine	F	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	Thymine	F	OH
CH_3	O-acyl	F	O	Uracil	F	OH
CH_3	O-acyl	F	O	Guanine	F	OH
CH_3	O-acyl	F	O	Cytosine	F	OH
CH_3	O-acyl	F	O	Adenine	F	OH
CH_3	O-acyl	F	O	Hypoxanthine	F	OH
CH_3	O-acyl	F	O	5-Fluorouracil	F	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	F	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-Aminoadenine	F	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	F	O	Thymine	Br	H
CH_3	O-acyl	F	O	Uracil	Br	H
CH_3	O-acyl	F	O	Guanine	Br	H
CH_3	O-acyl	F	O	Cytosine	Br	H
CH_3	O-acyl	F	O	Adenine	Br	H
CH_3	O-acyl	F	O	Hypoxanthine	Br	H
CH_3	O-acyl	F	O	5-Fluorouracil	Br	H
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-Aminoadenine	Br	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	F	O	Thymine	Br	O-amino acid
CH_3	O-acyl	F	O	Uracil	Br	O-amino acid
CH_3	O-acyl	F	O	Guanine	Br	O-amino acid
CH_3	O-acyl	F	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	F	O	Adenine	Br	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	Thymine	Br	O-acyl
CH_3	O-acyl	F	O	Uracil	Br	O-acyl
CH_3	O-acyl	F	O	Guanine	Br	O-acyl
CH_3	O-acyl	F	O	Cytosine	Br	O-acyl
CH_3	O-acyl	F	O	Adenine	Br	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	Thymine	Br	OH
CH_3	O-acyl	F	O	Uracil	Br	OH
CH_3	O-acyl	F	O	Guanine	Br	OH
CH_3	O-acyl	F	O	Cytosine	Br	OH
CH_3	O-acyl	F	O	Adenine	Br	OH
CH_3	O-acyl	F	O	Hypoxanthine	Br	OH
CH_3	O-acyl	F	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	F	O	Thymine	Cl	O-acyl
CH_3	O-acyl	F	O	Uracil	Cl	O-acyl
CH_3	O-acyl	F	O	Guanine	Cl	O-acyl
CH_3	O-acyl	F	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	F	O	Adenine	Cl	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	Thymine	Cl	OH
CH_3	O-acyl	F	O	Uracil	Cl	OH
CH_3	O-acyl	F	O	Guanine	Cl	OH
CH_3	O-acyl	F	O	Cytosine	Cl	OH
CH_3	O-acyl	F	O	Adenine	Cl	OH
CH_3	O-acyl	F	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	Thymine	Cl	H
CH_3	O-acyl	F	O	Uracil	Cl	H
CH_3	O-acyl	F	O	Guanine	Cl	H
CH_3	O-acyl	F	O	Cytosine	Cl	H
CH_3	O-acyl	F	O	Adenine	Cl	H
CH_3	O-acyl	F	O	Hypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	F	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	F	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	F	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	F	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	F	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	Thymine	H	H
CH_3	O-acyl	F	O	Uracil	H	H
CH_3	O-acyl	F	O	Guanine	H	H
CH_3	O-acyl	F	O	Cytosine	H	H
CH_3	O-acyl	F	O	Adenine	H	H
CH_3	O-acyl	F	O	Hypoxanthine	H	H
CH_3	O-acyl	F	O	5-Fluorouracil	H	H
CH_3	O-acyl	F	O	8-Fluoroguanine	H	H
CH_3	O-acyl	F	O	5-Fluorocytosine	H	H
CH_3	O-acyl	F	O	8-Fluoroadenine	H	H
CH_3	O-acyl	F	O	2-Fluoroadenine	H	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2-Aminoadenine	H	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	F	O	2-N-acetylguanine	H	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	F	O	6-N-acetyladenine	H	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	F	O	Thymine	H	O-amino acid
CH_3	O-acyl	F	O	Uracil	H	O-amino acid
CH_3	O-acyl	F	O	Guanine	H	O-amino acid
CH_3	O-acyl	F	O	Cytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	Adenine	H	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	Thymine	H	O-acyl
CH_3	O-acyl	F	O	Uracil	H	O-acyl
CH_3	O-acyl	F	O	Guanine	H	O-acyl
CH_3	O-acyl	F	O	Cytosine	H	O-acyl
CH_3	O-acyl	F	O	Adenine	H	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	Thymine	H	OH
CH_3	O-acyl	F	O	Uracil	H	OH
CH_3	O-acyl	F	O	Guanine	H	OH
CH_3	O-acyl	F	O	Cytosine	H	OH
CH_3	O-acyl	F	O	Adenine	H	OH
CH_3	O-acyl	F	O	Hypoxanthine	H	OH
CH_3	O-acyl	F	O	5-Fluorouracil	H	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	F	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-Aminoadenine	H	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	F	O	Thymine	OH	H
CH_3	O-acyl	F	O	Uracil	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	Guanine	OH	H
CH_3	O-acyl	F	O	Cytosine	OH	H
CH_3	O-acyl	F	O	Adenine	OH	H
CH_3	O-acyl	F	O	Hypoxanthine	OH	H
CH_3	O-acyl	F	O	5-Fluorouracil	OH	H
CH_3	O-acyl	F	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	F	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	F	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-Aminoadenine	OH	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	F	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Br	O	Thymine	F	H
CH_3	O-acyl	Br	O	Uracil	F	H
CH_3	O-acyl	Br	O	Guanine	F	H
CH_3	O-acyl	Br	O	Cytosine	F	H
CH_3	O-acyl	Br	O	Adenine	F	H
CH_3	O-acyl	Br	O	Hypoxanthine	F	H
CH_3	O-acyl	Br	O	5-Fluorouracil	F	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-Aminoadenine	F	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Br	O	Thymine	F	O-amino acid
CH_3	O-acyl	Br	O	Uracil	F	O-amino acid
CH_3	O-acyl	Br	O	Guanine	F	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	F	O-amino acid
CH_3	O-acyl	Br	O	Adenine	F	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	Thymine	F	O-acyl
CH_3	O-acyl	Br	O	Uracil	F	O-acyl
CH_3	O-acyl	Br	O	Guanine	F	O-acyl
CH_3	O-acyl	Br	O	Cytosine	F	O-acyl
CH_3	O-acyl	Br	O	Adenine	F	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	Thymine	F	OH
CH_3	O-acyl	Br	O	Uracil	F	OH
CH_3	O-acyl	Br	O	Guanine	F	OH
CH_3	O-acyl	Br	O	Cytosine	F	OH
CH_3	O-acyl	Br	O	Adenine	F	OH
CH_3	O-acyl	Br	O	Hypoxanthine	F	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	F	OH
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-Aminoadenine	F	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Br	O	Thymine	Br	H
CH_3	O-acyl	Br	O	Uracil	Br	H
CH_3	O-acyl	Br	O	Guanine	Br	H
CH_3	O-acyl	Br	O	Cytosine	Br	H
CH_3	O-acyl	Br	O	Adenine	Br	H
CH_3	O-acyl	Br	O	Hypoxanthine	Br	H
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Br	O	Thymine	Br	O-amino acid
CH_3	O-acyl	Br	O	Uracil	Br	O-amino acid
CH_3	O-acyl	Br	O	Guanine	Br	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	Adenine	Br	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	Thymine	Br	O-acyl
CH_3	O-acyl	Br	O	Uracil	Br	O-acyl
CH_3	O-acyl	Br	O	Guanine	Br	O-acyl
CH_3	O-acyl	Br	O	Cytosine	Br	O-acyl
CH_3	O-acyl	Br	O	Adenine	Br	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	Thymine	Br	OH
CH_3	O-acyl	Br	O	Uracil	Br	OH
CH_3	O-acyl	Br	O	Guanine	Br	OH
CH_3	O-acyl	Br	O	Cytosine	Br	OH
CH_3	O-acyl	Br	O	Adenine	Br	OH
CH_3	O-acyl	Br	O	Hypoxanthine	Br	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	Thymine	Cl	H
CH_3	O-acyl	Br	O	Uracil	Cl	H
CH_3	O-acyl	Br	O	Guanine	Cl	H
CH_3	O-acyl	Br	O	Cytosine	Cl	H
CH_3	O-acyl	Br	O	Adenine	Cl	H
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	H
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	Br	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Thymine	Cl	O-acyl
CH_3	O-acyl	Br	O	Uracil	Cl	O-acyl
CH_3	O-acyl	Br	O	Guanine	Cl	O-acyl
CH_3	O-acyl	Br	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	Adenine	Cl	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	Thymine	Cl	OH
CH_3	O-acyl	Br	O	Uracil	Cl	OH
CH_3	O-acyl	Br	O	Guanine	Cl	OH
CH_3	O-acyl	Br	O	Cytosine	Cl	OH
CH_3	O-acyl	Br	O	Adenine	Cl	OH
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	Thymine	H	H
CH_3	O-acyl	Br	O	Uracil	H	H
CH_3	O-acyl	Br	O	Guanine	H	H
CH_3	O-acyl	Br	O	Cytosine	H	H
CH_3	O-acyl	Br	O	Adenine	H	H
CH_3	O-acyl	Br	O	Hypoxanthine	H	H
CH_3	O-acyl	Br	O	5-Fluorouracil	H	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-Aminoadenine	H	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Br	O	Thymine	H	O-amino acid
CH_3	O-acyl	Br	O	Uracil	H	O-amino acid
CH_3	O-acyl	Br	O	Guanine	H	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	H	O-amino acid
CH_3	O-acyl	Br	O	Adenine	H	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	Thymine	H	O-acyl
CH_3	O-acyl	Br	O	Uracil	H	O-acyl
CH_3	O-acyl	Br	O	Guanine	H	O-acyl
CH_3	O-acyl	Br	O	Cytosine	H	O-acyl
CH_3	O-acyl	Br	O	Adenine	H	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	Thymine	H	OH
CH_3	O-acyl	Br	O	Uracil	H	OH
CH_3	O-acyl	Br	O	Guanine	H	OH
CH_3	O-acyl	Br	O	Cytosine	H	OH
CH_3	O-acyl	Br	O	Adenine	H	OH
CH_3	O-acyl	Br	O	Hypoxanthine	H	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-Aminoadenine	H	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Br	O	Thymine	OH	H
CH_3	O-acyl	Br	O	Uracil	OH	H
CH_3	O-acyl	Br	O	Guanine	OH	H
CH_3	O-acyl	Br	O	Cytosine	OH	H
CH_3	O-acyl	Br	O	Adenine	OH	H
CH_3	O-acyl	Br	O	Hypoxanthine	OH	H
CH_3	O-acyl	Br	O	5-Fluorouracil	OH	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-Aminoadenine	OH	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	Thymine	F	H
CH_3	O-acyl	Cl	O	Uracil	F	H
CH_3	O-acyl	Cl	O	Guanine	F	H
CH_3	O-acyl	Cl	O	Cytosine	F	H
CH_3	O-acyl	Cl	O	Adenine	F	H
CH_3	O-acyl	Cl	O	Hypoxanthine	F	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Cl	O	Thymine	F	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	F	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	F	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	F	O-acyl
CH_3	O-acyl	Cl	O	Uracil	F	O-acyl
CH_3	O-acyl	Cl	O	Guanine	F	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	F	O-acyl
CH_3	O-acyl	Cl	O	Adenine	F	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	Thymine	F	OH
CH_3	O-acyl	Cl	O	Uracil	F	OH
CH_3	O-acyl	Cl	O	Guanine	F	OH
CH_3	O-acyl	Cl	O	Cytosine	F	OH
CH_3	O-acyl	Cl	O	Adenine	F	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	F	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	Thymine	Br	H
CH_3	O-acyl	Cl	O	Uracil	Br	H
CH_3	O-acyl	Cl	O	Guanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	Cytosine	Br	H
CH_3	O-acyl	Cl	O	Adenine	Br	H
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	Thymine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	Br	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	Br	O-acyl
CH_3	O-acyl	Cl	O	Uracil	Br	O-acyl
CH_3	O-acyl	Cl	O	Guanine	Br	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	Adenine	Br	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	Thymine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	Uracil	Br	OH
CH_3	O-acyl	Cl	O	Guanine	Br	OH
CH_3	O-acyl	Cl	O	Cytosine	Br	OH
CH_3	O-acyl	Cl	O	Adenine	Br	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	Thymine	Cl	H
CH_3	O-acyl	Cl	O	Uracil	Cl	H
CH_3	O-acyl	Cl	O	Guanine	Cl	H
CH_3	O-acyl	Cl	O	Cytosine	Cl	H
CH_3	O-acyl	Cl	O	Adenine	Cl	H
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Uracil	Cl	O-acyl
CH_3	O-acyl	Cl	O	Guanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Adenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Thymine	Cl	OH
CH_3	O-acyl	Cl	O	Uracil	Cl	OH
CH_3	O-acyl	Cl	O	Guanine	Cl	OH
CH_3	O-acyl	Cl	O	Cytosine	Cl	OH
CH_3	O-acyl	Cl	O	Adenine	Cl	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	Thymine	H	H
CH_3	O-acyl	Cl	O	Uracil	H	H
CH_3	O-acyl	Cl	O	Guanine	H	H
CH_3	O-acyl	Cl	O	Cytosine	H	H
CH_3	O-acyl	Cl	O	Adenine	H	H
CH_3	O-acyl	Cl	O	Hypoxanthine	H	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Cl	O	Thymine	H	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	H	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	H	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	H	O-amino acid
CH_3	O-acyl	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	H	O-acyl
CH_3	O-acyl	Cl	O	Uracil	H	O-acyl
CH_3	O-acyl	Cl	O	Guanine	H	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	H	O-acyl
CH_3	O-acyl	Cl	O	Adenine	H	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	Thymine	H	OH
CH_3	O-acyl	Cl	O	Uracil	H	OH
CH_3	O-acyl	Cl	O	Guanine	H	OH
CH_3	O-acyl	Cl	O	Cytosine	H	OH
CH_3	O-acyl	Cl	O	Adenine	H	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	H	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	Thymine	OH	H
CH_3	O-acyl	Cl	O	Uracil	OH	H
CH_3	O-acyl	Cl	O	Guanine	OH	H
CH_3	O-acyl	Cl	O	Cytosine	OH	H
CH_3	O-acyl	Cl	O	Adenine	OH	H
CH_3	O-acyl	Cl	O	Hypoxanthine	OH	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	OH	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	OH	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	H	O	Thymine	F	H
CH_3	O-acyl	H	O	Uracil	F	H
CH_3	O-acyl	H	O	Guanine	F	H
CH_3	O-acyl	H	O	Cytosine	F	H
CH_3	O-acyl	H	O	Adenine	F	H
CH_3	O-acyl	H	O	Hypoxanthine	F	H
CH_3	O-acyl	H	O	5-Fluorouracil	F	H
CH_3	O-acyl	H	O	8-Fluoroguanine	F	H
CH_3	O-acyl	H	O	5-Fluorocytosine	F	H
CH_3	O-acyl	H	O	8-Fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-Fluoroadenine	F	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2-Aminoadenine	F	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	H	O	2-N-acetylguanine	F	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	H	O	6-N-acetyladenine	F	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	H	O	Thymine	F	O-amino acid
CH_3	O-acyl	H	O	Uracil	F	O-amino acid
CH_3	O-acyl	H	O	Guanine	F	O-amino acid
CH_3	O-acyl	H	O	Cytosine	F	O-amino acid
CH_3	O-acyl	H	O	Adenine	F	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	Thymine	F	O-acyl
CH_3	O-acyl	H	O	Uracil	F	O-acyl
CH_3	O-acyl	H	O	Guanine	F	O-acyl
CH_3	O-acyl	H	O	Cytosine	F	O-acyl
CH_3	O-acyl	H	O	Adenine	F	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	Thymine	F	OH
CH_3	O-acyl	H	O	Uracil	F	OH
CH_3	O-acyl	H	O	Guanine	F	OH
CH_3	O-acyl	H	O	Cytosine	F	OH
CH_3	O-acyl	H	O	Adenine	F	OH
CH_3	O-acyl	H	O	Hypoxanthine	F	OH
CH_3	O-acyl	H	O	5-Fluorouracil	F	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-Aminoadenine	F	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	H	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	H	O	Thymine	Br	H
CH_3	O-acyl	H	O	Uracil	Br	H
CH_3	O-acyl	H	O	Guanine	Br	H
CH_3	O-acyl	H	O	Cytosine	Br	H
CH_3	O-acyl	H	O	Adenine	Br	H
CH_3	O-acyl	H	O	Hypoxanthine	Br	H
CH_3	O-acyl	H	O	5-Fluorouracil	Br	H
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-Aminoadenine	Br	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	H	O	Thymine	Br	O-amino acid
CH_3	O-acyl	H	O	Uracil	Br	O-amino acid
CH_3	O-acyl	H	O	Guanine	Br	O-amino acid
CH_3	O-acyl	H	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	H	O	Adenine	Br	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	Thymine	Br	O-acyl
CH_3	O-acyl	H	O	Uracil	Br	O-acyl
CH_3	O-acyl	H	O	Guanine	Br	O-acyl
CH_3	O-acyl	H	O	Cytosine	Br	O-acyl
CH_3	O-acyl	H	O	Adenine	Br	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	Thymine	Br	OH
CH_3	O-acyl	H	O	Uracil	Br	OH
CH_3	O-acyl	H	O	Guanine	Br	OH
CH_3	O-acyl	H	O	Cytosine	Br	OH
CH_3	O-acyl	H	O	Adenine	Br	OH
CH_3	O-acyl	H	O	Hypoxanthine	Br	OH
CH_3	O-acyl	H	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	H	O	Thymine	Cl	H
CH_3	O-acyl	H	O	Uracil	Cl	H
CH_3	O-acyl	H	O	Guanine	Cl	H
CH_3	O-acyl	H	O	Cytosine	Cl	H
CH_3	O-acyl	H	O	Adenine	Cl	H
CH_3	O-acyl	H	O	Hypoxanthine	Cl	H
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	H	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	H	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	H	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	H	O	Cytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	Thymine	Cl	O-acyl
CH_3	O-acyl	H	O	Uracil	Cl	O-acyl
CH_3	O-acyl	H	O	Guanine	Cl	O-acyl
CH_3	O-acyl	H	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	H	O	Adenine	Cl	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	Thymine	Cl	OH
CH_3	O-acyl	H	O	Uracil	Cl	OH
CH_3	O-acyl	H	O	Guanine	Cl	OH
CH_3	O-acyl	H	O	Cytosine	Cl	OH
CH_3	O-acyl	H	O	Adenine	Cl	OH
CH_3	O-acyl	H	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	Thymine	H	H
CH_3	O-acyl	H	O	Uracil	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	Guanine	H	H
CH_3	O-acyl	H	O	Cytosine	H	H
CH_3	O-acyl	H	O	Adenine	H	H
CH_3	O-acyl	H	O	Hypoxanthine	H	H
CH_3	O-acyl	H	O	5-Fluorouracil	H	H
CH_3	O-acyl	H	O	8-Fluoroguanine	H	H
CH_3	O-acyl	H	O	5-Fluorocytosine	H	H
CH_3	O-acyl	H	O	8-Fluoroadenine	H	H
CH_3	O-acyl	H	O	2-Fluoroadenine	H	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2-Aminoadenine	H	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	H	O	2-N-acetylguanine	H	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	H	O	6-N-acetyladenine	H	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	H	O	Thymine	H	O-amino acid
CH_3	O-acyl	H	O	Uracil	H	O-amino acid
CH_3	O-acyl	H	O	Guanine	H	O-amino acid
CH_3	O-acyl	H	O	Cytosine	H	O-amino acid
CH_3	O-acyl	H	O	Adenine	H	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	Thymine	H	O-acyl
CH_3	O-acyl	H	O	Uracil	H	O-acyl
CH_3	O-acyl	H	O	Guanine	H	O-acyl
CH_3	O-acyl	H	O	Cytosine	H	O-acyl
CH_3	O-acyl	H	O	Adenine	H	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	Thymine	H	OH
CH_3	O-acyl	H	O	Uracil	H	OH
CH_3	O-acyl	H	O	Guanine	H	OH
CH_3	O-acyl	H	O	Cytosine	H	OH
CH_3	O-acyl	H	O	Adenine	H	OH
CH_3	O-acyl	H	O	Hypoxanthine	H	OH
CH_3	O-acyl	H	O	5-Fluorouracil	H	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	H	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-Aminoadenine	H	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	H	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	H	O	Thymine	OH	H
CH_3	O-acyl	H	O	Uracil	OH	H
CH_3	O-acyl	H	O	Guanine	OH	H
CH_3	O-acyl	H	O	Cytosine	OH	H
CH_3	O-acyl	H	O	Adenine	OH	H
CH_3	O-acyl	H	O	Hypoxanthine	OH	H
CH_3	O-acyl	H	O	5-Fluorouracil	OH	H
CH_3	O-acyl	H	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	H	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	H	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-Aminoadenine	OH	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	H	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	H	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	F	O	Thymine	F	H
CH_3	O-amino acid	F	O	Uracil	F	H
CH_3	O-amino acid	F	O	Guanine	F	H
CH_3	O-amino acid	F	O	Cytosine	F	H
CH_3	O-amino acid	F	O	Adenine	F	H
CH_3	O-amino acid	F	O	Hypoxanthine	F	H
CH_3	O-amino acid	F	O	5-Fluorouracil	F	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-Aminoadenine	F	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	F	O	Thymine	F	O-amino acid
CH_3	O-amino acid	F	O	Uracil	F	O-amino acid
CH_3	O-amino acid	F	O	Guanine	F	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	F	O	Adenine	F	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	Thymine	F	O-acyl
CH_3	O-amino acid	F	O	Uracil	F	O-acyl
CH_3	O-amino acid	F	O	Guanine	F	O-acyl
CH_3	O-amino acid	F	O	Cytosine	F	O-acyl
CH_3	O-amino acid	F	O	Adenine	F	O-acyl
CH_3	O-amino acid	F	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	Thymine	F	OH
CH_3	O-amino acid	F	O	Uracil	F	OH
CH_3	O-amino acid	F	O	Guanine	F	OH
CH_3	O-amino acid	F	O	Cytosine	F	OH
CH_3	O-amino acid	F	O	Adenine	F	OH
CH_3	O-amino acid	F	O	Hypoxanthine	F	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	F	O	Thymine	Br	H
CH_3	O-amino acid	F	O	Uracil	Br	H
CH_3	O-amino acid	F	O	Guanine	Br	H
CH_3	O-amino acid	F	O	Cytosine	Br	H
CH_3	O-amino acid	F	O	Adenine	Br	H
CH_3	O-amino acid	F	O	Hypoxanthine	Br	H
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	F	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	F	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	F	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	Thymine	Br	O-acyl
CH_3	O-amino acid	F	O	Uracil	Br	O-acyl
CH_3	O-amino acid	F	O	Guanine	Br	O-acyl
CH_3	O-amino acid	F	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	F	O	Adenine	Br	O-acyl
CH_3	O-amino acid	F	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	Thymine	Br	OH
CH_3	O-amino acid	F	O	Uracil	Br	OH
CH_3	O-amino acid	F	O	Guanine	Br	OH
CH_3	O-amino acid	F	O	Cytosine	Br	OH
CH_3	O-amino acid	F	O	Adenine	Br	OH
CH_3	O-amino acid	F	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	Thymine	Cl	H
CH_3	O-amino acid	F	O	Uracil	Cl	H
CH_3	O-amino acid	F	O	Guanine	Cl	H
CH_3	O-amino acid	F	O	Cytosine	Cl	H
CH_3	O-amino acid	F	O	Adenine	Cl	H
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	F	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	F	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	F	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	F	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	Thymine	Cl	OH
CH_3	O-amino acid	F	O	Uracil	Cl	OH
CH_3	O-amino acid	F	O	Guanine	Cl	OH
CH_3	O-amino acid	F	O	Cytosine	Cl	OH
CH_3	O-amino acid	F	O	Adenine	Cl	OH
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	Thymine	H	H
CH_3	O-amino acid	F	O	Uracil	H	H
CH_3	O-amino acid	F	O	Guanine	H	H
CH_3	O-amino acid	F	O	Cytosine	H	H
CH_3	O-amino acid	F	O	Adenine	H	H
CH_3	O-amino acid	F	O	Hypoxanthine	H	H
CH_3	O-amino acid	F	O	5-Fluorouracil	H	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-Aminoadenine	H	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	F	O	Thymine	H	O-amino acid
CH_3	O-amino acid	F	O	Uracil	H	O-amino acid
CH_3	O-amino acid	F	O	Guanine	H	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	F	O	Adenine	H	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	Thymine	H	O-acyl
CH_3	O-amino acid	F	O	Uracil	H	O-acyl
CH_3	O-amino acid	F	O	Guanine	H	O-acyl
CH_3	O-amino acid	F	O	Cytosine	H	O-acyl
CH_3	O-amino acid	F	O	Adenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	Thymine	H	OH
CH_3	O-amino acid	F	O	Uracil	H	OH
CH_3	O-amino acid	F	O	Guanine	H	OH
CH_3	O-amino acid	F	O	Cytosine	H	OH
CH_3	O-amino acid	F	O	Adenine	H	OH
CH_3	O-amino acid	F	O	Hypoxanthine	H	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	F	O	Thymine	OH	H
CH_3	O-amino acid	F	O	Uracil	OH	H
CH_3	O-amino acid	F	O	Guanine	OH	H
CH_3	O-amino acid	F	O	Cytosine	OH	H
CH_3	O-amino acid	F	O	Adenine	OH	H
CH_3	O-amino acid	F	O	Hypoxanthine	OH	H
CH_3	O-amino acid	F	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	Thymine	F	H
CH_3	O-amino acid	Br	O	Uracil	F	H
CH_3	O-amino acid	Br	O	Guanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	Cytosine	F	H
CH_3	O-amino acid	Br	O	Adenine	F	H
CH_3	O-amino acid	Br	O	Hypoxanthine	F	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Br	O	Thymine	F	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	F	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	F	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	F	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	F	O-acyl
CH_3	O-amino acid	Br	O	Uracil	F	O-acyl
CH_3	O-amino acid	Br	O	Guanine	F	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	F	O-acyl
CH_3	O-amino acid	Br	O	Adenine	F	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	Thymine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	Uracil	F	OH
CH_3	O-amino acid	Br	O	Guanine	F	OH
CH_3	O-amino acid	Br	O	Cytosine	F	OH
CH_3	O-amino acid	Br	O	Adenine	F	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	F	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	Thymine	Br	H
CH_3	O-amino acid	Br	O	Uracil	Br	H
CH_3	O-amino acid	Br	O	Guanine	Br	H
CH_3	O-amino acid	Br	O	Cytosine	Br	H
CH_3	O-amino acid	Br	O	Adenine	Br	H
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	Br	O-acyl
CH_3	O-amino acid	Br	O	Uracil	Br	O-acyl
CH_3	O-amino acid	Br	O	Guanine	Br	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	Adenine	Br	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	Thymine	Br	OH
CH_3	O-amino acid	Br	O	Uracil	Br	OH
CH_3	O-amino acid	Br	O	Guanine	Br	OH
CH_3	O-amino acid	Br	O	Cytosine	Br	OH
CH_3	O-amino acid	Br	O	Adenine	Br	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	Thymine	Cl	H
CH_3	O-amino acid	Br	O	Uracil	Cl	H
CH_3	O-amino acid	Br	O	Guanine	Cl	H
CH_3	O-amino acid	Br	O	Cytosine	Cl	H
CH_3	O-amino acid	Br	O	Adenine	Cl	H
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	Br	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Thymine	Cl	OH
CH_3	O-amino acid	Br	O	Uracil	Cl	OH
CH_3	O-amino acid	Br	O	Guanine	Cl	OH
CH_3	O-amino acid	Br	O	Cytosine	Cl	OH
CH_3	O-amino acid	Br	O	Adenine	Cl	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	Thymine	H	H
CH_3	O-amino acid	Br	O	Uracil	H	H
CH_3	O-amino acid	Br	O	Guanine	H	H
CH_3	O-amino acid	Br	O	Cytosine	H	H
CH_3	O-amino acid	Br	O	Adenine	H	H
CH_3	O-amino acid	Br	O	Hypoxanthine	H	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Br	O	Thymine	H	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	H	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	H	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	H	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	H	O-acyl
CH_3	O-amino acid	Br	O	Uracil	H	O-acyl
CH_3	O-amino acid	Br	O	Guanine	H	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	H	O-acyl
CH_3	O-amino acid	Br	O	Adenine	H	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	Thymine	H	OH
CH_3	O-amino acid	Br	O	Uracil	H	OH
CH_3	O-amino acid	Br	O	Guanine	H	OH
CH_3	O-amino acid	Br	O	Cytosine	H	OH
CH_3	O-amino acid	Br	O	Adenine	H	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	H	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	Thymine	OH	H
CH_3	O-amino acid	Br	O	Uracil	OH	H
CH_3	O-amino acid	Br	O	Guanine	OH	H
CH_3	O-amino acid	Br	O	Cytosine	OH	H
CH_3	O-amino acid	Br	O	Adenine	OH	H
CH_3	O-amino acid	Br	O	Hypoxanthine	OH	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	Thymine	F	H
CH_3	O-amino acid	Cl	O	Uracil	F	H
CH_3	O-amino acid	Cl	O	Guanine	F	H
CH_3	O-amino acid	Cl	O	Cytosine	F	H
CH_3	O-amino acid	Cl	O	Adenine	F	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	Thymine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	F	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Adenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	F	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	F	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	F	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	F	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	Thymine	F	OH
CH_3	O-amino acid	Cl	O	Uracil	F	OH
CH_3	O-amino acid	Cl	O	Guanine	F	OH
CH_3	O-amino acid	Cl	O	Cytosine	F	OH
CH_3	O-amino acid	Cl	O	Adenine	F	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	Thymine	Br	H
CH_3	O-amino acid	Cl	O	Uracil	Br	H
CH_3	O-amino acid	Cl	O	Guanine	Br	H
CH_3	O-amino acid	Cl	O	Cytosine	Br	H
CH_3	O-amino acid	Cl	O	Adenine	Br	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	Br	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Thymine	Br	OH
CH_3	O-amino acid	Cl	O	Uracil	Br	OH
CH_3	O-amino acid	Cl	O	Guanine	Br	OH
CH_3	O-amino acid	Cl	O	Cytosine	Br	OH
CH_3	O-amino acid	Cl	O	Adenine	Br	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	Thymine	Cl	H
CH_3	O-amino acid	Cl	O	Uracil	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	Guanine	Cl	H
CH_3	O-amino acid	Cl	O	Cytosine	Cl	H
CH_3	O-amino acid	Cl	O	Adenine	Cl	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	Thymine	Cl	OH
CH_3	O-amino acid	Cl	O	Uracil	Cl	OH
CH_3	O-amino acid	Cl	O	Guanine	Cl	OH
CH_3	O-amino acid	Cl	O	Cytosine	Cl	OH
CH_3	O-amino acid	Cl	O	Adenine	Cl	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	Thymine	H	H
CH_3	O-amino acid	Cl	O	Uracil	H	H
CH_3	O-amino acid	Cl	O	Guanine	H	H
CH_3	O-amino acid	Cl	O	Cytosine	H	H
CH_3	O-amino acid	Cl	O	Adenine	H	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	Thymine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	H	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Adenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	H	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	H	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	H	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	H	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	Thymine	H	OH
CH_3	O-amino acid	Cl	O	Uracil	H	OH
CH_3	O-amino acid	Cl	O	Guanine	H	OH
CH_3	O-amino acid	Cl	O	Cytosine	H	OH
CH_3	O-amino acid	Cl	O	Adenine	H	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	Thymine	OH	H
CH_3	O-amino acid	Cl	O	Uracil	OH	H
CH_3	O-amino acid	Cl	O	Guanine	OH	H
CH_3	O-amino acid	Cl	O	Cytosine	OH	H
CH_3	O-amino acid	Cl	O	Adenine	OH	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	H	O	Thymine	F	H
CH_3	O-amino acid	H	O	Uracil	F	H
CH_3	O-amino acid	H	O	Guanine	F	H
CH_3	O-amino acid	H	O	Cytosine	F	H
CH_3	O-amino acid	H	O	Adenine	F	H
CH_3	O-amino acid	H	O	Hypoxanthine	F	H
CH_3	O-amino acid	H	O	5-Fluorouracil	F	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-Aminoadenine	F	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	H	O	Thymine	F	O-amino acid
CH_3	O-amino acid	H	O	Uracil	F	O-amino acid
CH_3	O-amino acid	H	O	Guanine	F	O-amino acid
CH_3	O-amino acid	H	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	H	O	Adenine	F	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	Thymine	F	O-acyl
CH_3	O-amino acid	H	O	Uracil	F	O-acyl
CH_3	O-amino acid	H	O	Guanine	F	O-acyl
CH_3	O-amino acid	H	O	Cytosine	F	O-acyl
CH_3	O-amino acid	H	O	Adenine	F	O-acyl
CH_3	O-amino acid	H	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	Thymine	F	OH
CH_3	O-amino acid	H	O	Uracil	F	OH
CH_3	O-amino acid	H	O	Guanine	F	OH
CH_3	O-amino acid	H	O	Cytosine	F	OH
CH_3	O-amino acid	H	O	Adenine	F	OH
CH_3	O-amino acid	H	O	Hypoxanthine	F	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	H	O	Thymine	Br	H
CH_3	O-amino acid	H	O	Uracil	Br	H
CH_3	O-amino acid	H	O	Guanine	Br	H
CH_3	O-amino acid	H	O	Cytosine	Br	H
CH_3	O-amino acid	H	O	Adenine	Br	H
CH_3	O-amino acid	H	O	Hypoxanthine	Br	H
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	H	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	H	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	H	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	H	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	H	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	Thymine	Br	O-acyl
CH_3	O-amino acid	H	O	Uracil	Br	O-acyl
CH_3	O-amino acid	H	O	Guanine	Br	O-acyl
CH_3	O-amino acid	H	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	H	O	Adenine	Br	O-acyl
CH_3	O-amino acid	H	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	Thymine	Br	OH
CH_3	O-amino acid	H	O	Uracil	Br	OH
CH_3	O-amino acid	H	O	Guanine	Br	OH
CH_3	O-amino acid	H	O	Cytosine	Br	OH
CH_3	O-amino acid	H	O	Adenine	Br	OH
CH_3	O-amino acid	H	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	Thymine	Cl	H
CH_3	O-amino acid	H	O	Uracil	Cl	H
CH_3	O-amino acid	H	O	Guanine	Cl	H
CH_3	O-amino acid	H	O	Cytosine	Cl	H
CH_3	O-amino acid	H	O	Adenine	Cl	H
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	H	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	H	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	H	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	H	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	Thymine	Cl	OH
CH_3	O-amino acid	H	O	Uracil	Cl	OH
CH_3	O-amino acid	H	O	Guanine	Cl	OH
CH_3	O-amino acid	H	O	Cytosine	Cl	OH
CH_3	O-amino acid	H	O	Adenine	Cl	OH
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	Thymine	H	H
CH_3	O-amino acid	H	O	Uracil	H	H
CH_3	O-amino acid	H	O	Guanine	H	H
CH_3	O-amino acid	H	O	Cytosine	H	H
CH_3	O-amino acid	H	O	Adenine	H	H
CH_3	O-amino acid	H	O	Hypoxanthine	H	H
CH_3	O-amino acid	H	O	5-Fluorouracil	H	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-Aminoadenine	H	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	H	O	Thymine	H	O-amino acid
CH_3	O-amino acid	H	O	Uracil	H	O-amino acid
CH_3	O-amino acid	H	O	Guanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	H	O	Adenine	H	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	Thymine	H	O-acyl
CH_3	O-amino acid	H	O	Uracil	H	O-acyl
CH_3	O-amino acid	H	O	Guanine	H	O-acyl
CH_3	O-amino acid	H	O	Cytosine	H	O-acyl
CH_3	O-amino acid	H	O	Adenine	H	O-acyl
CH_3	O-amino acid	H	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	Thymine	H	OH
CH_3	O-amino acid	H	O	Uracil	H	OH
CH_3	O-amino acid	H	O	Guanine	H	OH
CH_3	O-amino acid	H	O	Cytosine	H	OH
CH_3	O-amino acid	H	O	Adenine	H	OH
CH_3	O-amino acid	H	O	Hypoxanthine	H	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	H	O	Thymine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	Uracil	OH	H
CH_3	O-amino acid	H	O	Guanine	OH	H
CH_3	O-amino acid	H	O	Cytosine	OH	H
CH_3	O-amino acid	H	O	Adenine	OH	H
CH_3	O-amino acid	H	O	Hypoxanthine	OH	H
CH_3	O-amino acid	H	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	OH	F	O	Thymine	F	O-amino acid
CH_3	OH	F	O	Uracil	F	O-amino acid
CH_3	OH	F	O	Guanine	F	O-amino acid
CH_3	OH	F	O	Cytosine	F	O-amino acid
CH_3	OH	F	O	Adenine	F	O-amino acid
CH_3	OH	F	O	Hypoxanthine	F	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	F	O	Thymine	F	O-acyl
CH_3	OH	F	O	Uracil	F	O-acyl
CH_3	OH	F	O	Guanine	F	O-acyl
CH_3	OH	F	O	Cytosine	F	O-acyl
CH_3	OH	F	O	Adenine	F	O-acyl
CH_3	OH	F	O	Hypoxanthine	F	O-acyl
CH_3	OH	F	O	5-Fluorouracil	F	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	2-Aminoadenine	F	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	F	O	Thymine	Br	O-amino acid
CH_3	OH	F	O	Uracil	Br	O-amino acid
CH_3	OH	F	O	Guanine	Br	O-amino acid
CH_3	OH	F	O	Cytosine	Br	O-amino acid
CH_3	OH	F	O	Adenine	Br	O-amino acid
CH_3	OH	F	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	Thymine	Br	O-acyl
CH_3	OH	F	O	Uracil	Br	O-acyl
CH_3	OH	F	O	Guanine	Br	O-acyl
CH_3	OH	F	O	Cytosine	Br	O-acyl
CH_3	OH	F	O	Adenine	Br	O-acyl
CH_3	OH	F	O	Hypoxanthine	Br	O-acyl
CH_3	OH	F	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	F	O	Thymine	Cl	O-amino acid
CH_3	OH	F	O	Uracil	Cl	O-amino acid
CH_3	OH	F	O	Guanine	Cl	O-amino acid
CH_3	OH	F	O	Cytosine	Cl	O-amino acid
CH_3	OH	F	O	Adenine	Cl	O-amino acid
CH_3	OH	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	Thymine	Cl	O-acyl
CH_3	OH	F	O	Uracil	Cl	O-acyl
CH_3	OH	F	O	Guanine	Cl	O-acyl
CH_3	OH	F	O	Cytosine	Cl	O-acyl
CH_3	OH	F	O	Adenine	Cl	O-acyl
CH_3	OH	F	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	F	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	Thymine	H	O-amino acid
CH_3	OH	F	O	Uracil	H	O-amino acid
CH_3	OH	F	O	Guanine	H	O-amino acid
CH_3	OH	F	O	Cytosine	H	O-amino acid
CH_3	OH	F	O	Adenine	H	O-amino acid
CH_3	OH	F	O	Hypoxanthine	H	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	F	O	Thymine	H	O-acyl
CH_3	OH	F	O	Uracil	H	O-acyl
CH_3	OH	F	O	Guanine	H	O-acyl
CH_3	OH	F	O	Cytosine	H	O-acyl
CH_3	OH	F	O	Adenine	H	O-acyl
CH_3	OH	F	O	Hypoxanthine	H	O-acyl
CH_3	OH	F	O	5-Fluorouracil	H	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-Aminoadenine	H	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Br	O	Thymine	F	O-amino acid
CH_3	OH	Br	O	Uracil	F	O-amino acid
CH_3	OH	Br	O	Guanine	F	O-amino acid
CH_3	OH	Br	O	Cytosine	F	O-amino acid
CH_3	OH	Br	O	Adenine	F	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	F	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	Thymine	F	O-acyl
CH_3	OH	Br	O	Uracil	F	O-acyl
CH_3	OH	Br	O	Guanine	F	O-acyl
CH_3	OH	Br	O	Cytosine	F	O-acyl
CH_3	OH	Br	O	Adenine	F	O-acyl
CH_3	OH	Br	O	Hypoxanthine	F	O-acyl
CH_3	OH	Br	O	5-Fluorouracil	F	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	F	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Br	O	Thymine	Br	O-amino acid
CH_3	OH	Br	O	Uracil	Br	O-amino acid
CH_3	OH	Br	O	Guanine	Br	O-amino acid
CH_3	OH	Br	O	Cytosine	Br	O-amino acid
CH_3	OH	Br	O	Adenine	Br	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	Thymine	Br	O-acyl
CH_3	OH	Br	O	Uracil	Br	O-acyl
CH_3	OH	Br	O	Guanine	Br	O-acyl
CH_3	OH	Br	O	Cytosine	Br	O-acyl
CH_3	OH	Br	O	Adenine	Br	O-acyl
CH_3	OH	Br	O	Hypoxanthine	Br	O-acyl
CH_3	OH	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	Thymine	Cl	O-amino acid
CH_3	OH	Br	O	Uracil	Cl	O-amino acid
CH_3	OH	Br	O	Guanine	Cl	O-amino acid
CH_3	OH	Br	O	Cytosine	Cl	O-amino acid
CH_3	OH	Br	O	Adenine	Cl	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	Thymine	Cl	O-acyl
CH_3	OH	Br	O	Uracil	Cl	O-acyl
CH_3	OH	Br	O	Guanine	Cl	O-acyl
CH_3	OH	Br	O	Cytosine	Cl	O-acyl
CH_3	OH	Br	O	Adenine	Cl	O-acyl
CH_3	OH	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	Thymine	H	O-amino acid
CH_3	OH	Br	O	Uracil	H	O-amino acid
CH_3	OH	Br	O	Guanine	H	O-amino acid
CH_3	OH	Br	O	Cytosine	H	O-amino acid
CH_3	OH	Br	O	Adenine	H	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	H	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	Thymine	H	O-acyl
CH_3	OH	Br	O	Uracil	H	O-acyl
CH_3	OH	Br	O	Guanine	H	O-acyl
CH_3	OH	Br	O	Cytosine	H	O-acyl
CH_3	OH	Br	O	Adenine	H	O-acyl
CH_3	OH	Br	O	Hypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	5-Fluorouracil	H	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	H	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	Thymine	F	O-amino acid
CH_3	OH	Cl	O	Uracil	F	O-amino acid
CH_3	OH	Cl	O	Guanine	F	O-amino acid
CH_3	OH	Cl	O	Cytosine	F	O-amino acid
CH_3	OH	Cl	O	Adenine	F	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	Thymine	F	O-acyl
CH_3	OH	Cl	O	Uracil	F	O-acyl
CH_3	OH	Cl	O	Guanine	F	O-acyl
CH_3	OH	Cl	O	Cytosine	F	O-acyl
CH_3	OH	Cl	O	Adenine	F	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	F	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	Thymine	Br	O-amino acid
CH_3	OH	Cl	O	Uracil	Br	O-amino acid
CH_3	OH	Cl	O	Guanine	Br	O-amino acid
CH_3	OH	Cl	O	Cytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	Adenine	Br	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	Thymine	Br	O-acyl
CH_3	OH	Cl	O	Uracil	Br	O-acyl
CH_3	OH	Cl	O	Guanine	Br	O-acyl
CH_3	OH	Cl	O	Cytosine	Br	O-acyl
CH_3	OH	Cl	O	Adenine	Br	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	Thymine	Cl	O-amino acid
CH_3	OH	Cl	O	Uracil	Cl	O-amino acid
CH_3	OH	Cl	O	Guanine	Cl	O-amino acid
CH_3	OH	Cl	O	Cytosine	Cl	O-amino acid
CH_3	OH	Cl	O	Adenine	Cl	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	Thymine	Cl	O-acyl
CH_3	OH	Cl	O	Uracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	Guanine	Cl	O-acyl
CH_3	OH	Cl	O	Cytosine	Cl	O-acyl
CH_3	OH	Cl	O	Adenine	Cl	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	Thymine	H	O-amino acid
CH_3	OH	Cl	O	Uracil	H	O-amino acid
CH_3	OH	Cl	O	Guanine	H	O-amino acid
CH_3	OH	Cl	O	Cytosine	H	O-amino acid
CH_3	OH	Cl	O	Adenine	H	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	Thymine	H	O-acyl
CH_3	OH	Cl	O	Uracil	H	O-acyl
CH_3	OH	Cl	O	Guanine	H	O-acyl
CH_3	OH	Cl	O	Cytosine	H	O-acyl
CH_3	OH	Cl	O	Adenine	H	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	H	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	Thymine	F	O-amino acid
CH_3	OH	H	O	Uracil	F	O-amino acid
CH_3	OH	H	O	Guanine	F	O-amino acid
CH_3	OH	H	O	Cytosine	F	O-amino acid
CH_3	OH	H	O	Adenine	F	O-amino acid
CH_3	OH	H	O	Hypoxanthine	F	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	F	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	H	O	Thymine	F	O-acyl
CH_3	OH	H	O	Uracil	F	O-acyl
CH_3	OH	H	O	Guanine	F	O-acyl
CH_3	OH	H	O	Cytosine	F	O-acyl
CH_3	OH	H	O	Adenine	F	O-acyl
CH_3	OH	H	O	Hypoxanthine	F	O-acyl
CH_3	OH	H	O	5-Fluorouracil	F	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2-Aminoadenine	F	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	H	O	Thymine	Br	O-amino acid
CH_3	OH	H	O	Uracil	Br	O-amino acid
CH_3	OH	H	O	Guanine	Br	O-amino acid
CH_3	OH	H	O	Cytosine	Br	O-amino acid
CH_3	OH	H	O	Adenine	Br	O-amino acid
CH_3	OH	H	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	Thymine	Br	O-acyl
CH_3	OH	H	O	Uracil	Br	O-acyl
CH_3	OH	H	O	Guanine	Br	O-acyl
CH_3	OH	H	O	Cytosine	Br	O-acyl
CH_3	OH	H	O	Adenine	Br	O-acyl
CH_3	OH	H	O	Hypoxanthine	Br	O-acyl
CH_3	OH	H	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	H	O	Thymine	Cl	O-amino acid
CH_3	OH	H	O	Uracil	Cl	O-amino acid
CH_3	OH	H	O	Guanine	Cl	O-amino acid
CH_3	OH	H	O	Cytosine	Cl	O-amino acid
CH_3	OH	H	O	Adenine	Cl	O-amino acid
CH_3	OH	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	Thymine	Cl	O-acyl
CH_3	OH	H	O	Uracil	Cl	O-acyl
CH_3	OH	H	O	Guanine	Cl	O-acyl
CH_3	OH	H	O	Cytosine	Cl	O-acyl
CH_3	OH	H	O	Adenine	Cl	O-acyl
CH_3	OH	H	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	Thymine	H	O-amino acid
CH_3	OH	H	O	Uracil	H	O-amino acid
CH_3	OH	H	O	Guanine	H	O-amino acid
CH_3	OH	H	O	Cytosine	H	O-amino acid
CH_3	OH	H	O	Adenine	H	O-amino acid
CH_3	OH	H	O	Hypoxanthine	H	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	H	O	Thymine	H	O-acyl
CH_3	OH	H	O	Uracil	H	O-acyl
CH_3	OH	H	O	Guanine	H	O-acyl
CH_3	OH	H	O	Cytosine	H	O-acyl
CH_3	OH	H	O	Adenine	H	O-acyl
CH_3	OH	H	O	Hypoxanthine	H	O-acyl
CH_3	OH	H	O	5-Fluorouracil	H	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-Aminoadenine	H	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	F	O	Thymine	F	O-amino acid
CH_3	H	F	O	Uracil	F	O-amino acid
CH_3	H	F	O	Guanine	F	O-amino acid
CH_3	H	F	O	Cytosine	F	O-amino acid
CH_3	H	F	O	Adenine	F	O-amino acid
CH_3	H	F	O	Hypoxanthine	F	O-amino acid
CH_3	H	F	O	5-Fluorouracil	F	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-Aminoadenine	F	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	F	O	Thymine	F	O-acyl
CH_3	H	F	O	Uracil	F	O-acyl
CH_3	H	F	O	Guanine	F	O-acyl
CH_3	H	F	O	Cytosine	F	O-acyl
CH_3	H	F	O	Adenine	F	O-acyl
CH_3	H	F	O	Hypoxanthine	F	O-acyl
CH_3	H	F	O	5-Fluorouracil	F	O-acyl
CH_3	H	F	O	8-Fluoroguanine	F	O-acyl
CH_3	H	F	O	5-Fluorocytosine	F	O-acyl
CH_3	H	F	O	8-Fluoroadenine	F	O-acyl
CH_3	H	F	O	2-Fluoroadenine	F	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2-Aminoadenine	F	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	F	O	2-N-acetylguanine	F	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	F	O	6-N-acetyladenine	F	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	F	O	Thymine	Br	O-amino acid
CH_3	H	F	O	Uracil	Br	O-amino acid
CH_3	H	F	O	Guanine	Br	O-amino acid
CH_3	H	F	O	Cytosine	Br	O-amino acid
CH_3	H	F	O	Adenine	Br	O-amino acid
CH_3	H	F	O	Hypoxanthine	Br	O-amino acid
CH_3	H	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	F	O	Thymine	Br	O-acyl
CH_3	H	F	O	Uracil	Br	O-acyl
CH_3	H	F	O	Guanine	Br	O-acyl
CH_3	H	F	O	Cytosine	Br	O-acyl
CH_3	H	F	O	Adenine	Br	O-acyl
CH_3	H	F	O	Hypoxanthine	Br	O-acyl
CH_3	H	F	O	5-Fluorouracil	Br	O-acyl
CH_3	H	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-Aminoadenine	Br	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	F	O	Thymine	Cl	O-amino acid
CH_3	H	F	O	Uracil	Cl	O-amino acid
CH_3	H	F	O	Guanine	Cl	O-amino acid
CH_3	H	F	O	Cytosine	Cl	O-amino acid
CH_3	H	F	O	Adenine	Cl	O-amino acid
CH_3	H	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	Thymine	Cl	O-acyl
CH_3	H	F	O	Uracil	Cl	O-acyl
CH_3	H	F	O	Guanine	Cl	O-acyl
CH_3	H	F	O	Cytosine	Cl	O-acyl
CH_3	H	F	O	Adenine	Cl	O-acyl
CH_3	H	F	O	Hypoxanthine	Cl	O-acyl
CH_3	H	F	O	5-Fluorouracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	F	O	Thymine	H	O-amino acid
CH_3	H	F	O	Uracil	H	O-amino acid
CH_3	H	F	O	Guanine	H	O-amino acid
CH_3	H	F	O	Cytosine	H	O-amino acid
CH_3	H	F	O	Adenine	H	O-amino acid
CH_3	H	F	O	Hypoxanthine	H	O-amino acid
CH_3	H	F	O	5-Fluorouracil	H	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-Aminoadenine	H	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	F	O	Thymine	H	O-acyl
CH_3	H	F	O	Uracil	H	O-acyl
CH_3	H	F	O	Guanine	H	O-acyl
CH_3	H	F	O	Cytosine	H	O-acyl
CH_3	H	F	O	Adenine	H	O-acyl
CH_3	H	F	O	Hypoxanthine	H	O-acyl
CH_3	H	F	O	5-Fluorouracil	H	O-acyl
CH_3	H	F	O	8-Fluoroguanine	H	O-acyl
CH_3	H	F	O	5-Fluorocytosine	H	O-acyl
CH_3	H	F	O	8-Fluoroadenine	H	O-acyl
CH_3	H	F	O	2-Fluoroadenine	H	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2-Aminoadenine	H	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	F	O	2-N-acetylguanine	H	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	F	O	6-N-acetyladenine	H	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Br	O	Thymine	F	O-amino acid
CH_3	H	Br	O	Uracil	F	O-amino acid
CH_3	H	Br	O	Guanine	F	O-amino acid
CH_3	H	Br	O	Cytosine	F	O-amino acid
CH_3	H	Br	O	Adenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	Hypoxanthine	F	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Br	O	Thymine	F	O-acyl
CH_3	H	Br	O	Uracil	F	O-acyl
CH_3	H	Br	O	Guanine	F	O-acyl
CH_3	H	Br	O	Cytosine	F	O-acyl
CH_3	H	Br	O	Adenine	F	O-acyl
CH_3	H	Br	O	Hypoxanthine	F	O-acyl
CH_3	H	Br	O	5-Fluorouracil	F	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-Aminoadenine	F	O-acyl
CH_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Br	O	Thymine	Br	O-amino acid
CH_3	H	Br	O	Uracil	Br	O-amino acid
CH_3	H	Br	O	Guanine	Br	O-amino acid
CH_3	H	Br	O	Cytosine	Br	O-amino acid
CH_3	H	Br	O	Adenine	Br	O-amino acid
CH_3	H	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	Thymine	Br	O-acyl
CH_3	H	Br	O	Uracil	Br	O-acyl
CH_3	H	Br	O	Guanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	Cytosine	Br	O-acyl
CH_3	H	Br	O	Adenine	Br	O-acyl
CH_3	H	Br	O	Hypoxanthine	Br	O-acyl
CH_3	H	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Br	O	Thymine	Cl	O-amino acid
CH_3	H	Br	O	Uracil	Cl	O-amino acid
CH_3	H	Br	O	Guanine	Cl	O-amino acid
CH_3	H	Br	O	Cytosine	Cl	O-amino acid
CH_3	H	Br	O	Adenine	Cl	O-amino acid
CH_3	H	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	Thymine	Cl	O-acyl
CH_3	H	Br	O	Uracil	Cl	O-acyl
CH_3	H	Br	O	Guanine	Cl	O-acyl
CH_3	H	Br	O	Cytosine	Cl	O-acyl
CH_3	H	Br	O	Adenine	Cl	O-acyl
CH_3	H	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	H	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	Thymine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	Uracil	H	O-amino acid
CH_3	H	Br	O	Guanine	H	O-amino acid
CH_3	H	Br	O	Cytosine	H	O-amino acid
CH_3	H	Br	O	Adenine	H	O-amino acid
CH_3	H	Br	O	Hypoxanthine	H	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Br	O	Thymine	H	O-acyl
CH_3	H	Br	O	Uracil	H	O-acyl
CH_3	H	Br	O	Guanine	H	O-acyl
CH_3	H	Br	O	Cytosine	H	O-acyl
CH_3	H	Br	O	Adenine	H	O-acyl
CH_3	H	Br	O	Hypoxanthine	H	O-acyl
CH_3	H	Br	O	5-Fluorouracil	H	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-Aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	H	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Cl	O	Thymine	F	O-amino acid
CH_3	H	Cl	O	Uracil	F	O-amino acid
CH_3	H	Cl	O	Guanine	F	O-amino acid
CH_3	H	Cl	O	Cytosine	F	O-amino acid
CH_3	H	Cl	O	Adenine	F	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	Thymine	F	O-acyl
CH_3	H	Cl	O	Uracil	F	O-acyl
CH_3	H	Cl	O	Guanine	F	O-acyl
CH_3	H	Cl	O	Cytosine	F	O-acyl
CH_3	H	Cl	O	Adenine	F	O-acyl
CH_3	H	Cl	O	Hypoxanthine	F	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	F	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Cl	O	Thymine	Br	O-amino acid
CH_3	H	Cl	O	Uracil	Br	O-amino acid
CH_3	H	Cl	O	Guanine	Br	O-amino acid
CH_3	H	Cl	O	Cytosine	Br	O-amino acid
CH_3	H	Cl	O	Adenine	Br	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	Thymine	Br	O-acyl
CH_3	H	Cl	O	Uracil	Br	O-acyl
CH_3	H	Cl	O	Guanine	Br	O-acyl
CH_3	H	Cl	O	Cytosine	Br	O-acyl
CH_3	H	Cl	O	Adenine	Br	O-acyl
CH_3	H	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	Thymine	Cl	O-amino acid
CH_3	H	Cl	O	Uracil	Cl	O-amino acid
CH_3	H	Cl	O	Guanine	Cl	O-amino acid
CH_3	H	Cl	O	Cytosine	Cl	O-amino acid
CH_3	H	Cl	O	Adenine	Cl	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	Thymine	Cl	O-acyl
CH_3	H	Cl	O	Uracil	Cl	O-acyl
CH_3	H	Cl	O	Guanine	Cl	O-acyl
CH_3	H	Cl	O	Cytosine	Cl	O-acyl
CH_3	H	Cl	O	Adenine	Cl	O-acyl
CH_3	H	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	Thymine	H	O-amino acid
CH_3	H	Cl	O	Uracil	H	O-amino acid
CH_3	H	Cl	O	Guanine	H	O-amino acid
CH_3	H	Cl	O	Cytosine	H	O-amino acid
CH_3	H	Cl	O	Adenine	H	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	Thymine	H	O-acyl
CH_3	H	Cl	O	Uracil	H	O-acyl
CH_3	H	Cl	O	Guanine	H	O-acyl
CH_3	H	Cl	O	Cytosine	H	O-acyl
CH_3	H	Cl	O	Adenine	H	O-acyl
CH_3	H	Cl	O	Hypoxanthine	H	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	H	O	Thymine	F	O-amino acid
CH_3	H	H	O	Uracil	F	O-amino acid
CH_3	H	H	O	Guanine	F	O-amino acid
CH_3	H	H	O	Cytosine	F	O-amino acid
CH_3	H	H	O	Adenine	F	O-amino acid
CH_3	H	H	O	Hypoxanthine	F	O-amino acid
CH_3	H	H	O	5-Fluorouracil	F	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-Aminoadenine	F	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	H	O	Thymine	F	O-acyl
CH_3	H	H	O	Uracil	F	O-acyl
CH_3	H	H	O	Guanine	F	O-acyl
CH_3	H	H	O	Cytosine	F	O-acyl
CH_3	H	H	O	Adenine	F	O-acyl
CH_3	H	H	O	Hypoxanthine	F	O-acyl
CH_3	H	H	O	5-Fluorouracil	F	O-acyl
CH_3	H	H	O	8-Fluoroguanine	F	O-acyl
CH_3	H	H	O	5-Fluorocytosine	F	O-acyl
CH_3	H	H	O	8-Fluoroadenine	F	O-acyl
CH_3	H	H	O	2-Fluoroadenine	F	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2-Aminoadenine	F	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	H	O	2-N-acetylguanine	F	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	H	O	6-N-acetyladenine	F	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	H	O	Thymine	Br	O-amino acid
CH_3	H	H	O	Uracil	Br	O-amino acid
CH_3	H	H	O	Guanine	Br	O-amino acid
CH_3	H	H	O	Cytosine	Br	O-amino acid
CH_3	H	H	O	Adenine	Br	O-amino acid
CH_3	H	H	O	Hypoxanthine	Br	O-amino acid
CH_3	H	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	H	O	Thymine	Br	O-acyl
CH_3	H	H	O	Uracil	Br	O-acyl
CH_3	H	H	O	Guanine	Br	O-acyl
CH_3	H	H	O	Cytosine	Br	O-acyl
CH_3	H	H	O	Adenine	Br	O-acyl
CH_3	H	H	O	Hypoxanthine	Br	O-acyl
CH_3	H	H	O	5-Fluorouracil	Br	O-acyl
CH_3	H	H	O	8-Fluoroguanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-Aminoadenine	Br	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	H	O	Thymine	Cl	O-amino acid
CH_3	H	H	O	Uracil	Cl	O-amino acid
CH_3	H	H	O	Guanine	Cl	O-amino acid
CH_3	H	H	O	Cytosine	Cl	O-amino acid
CH_3	H	H	O	Adenine	Cl	O-amino acid
CH_3	H	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	Thymine	Cl	O-acyl
CH_3	H	H	O	Uracil	Cl	O-acyl
CH_3	H	H	O	Guanine	Cl	O-acyl
CH_3	H	H	O	Cytosine	Cl	O-acyl
CH_3	H	H	O	Adenine	Cl	O-acyl
CH_3	H	H	O	Hypoxanthine	Cl	O-acyl
CH_3	H	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	H	O	Thymine	H	O-amino acid
CH_3	H	H	O	Uracil	H	O-amino acid
CH_3	H	H	O	Guanine	H	O-amino acid
CH_3	H	H	O	Cytosine	H	O-amino acid
CH_3	H	H	O	Adenine	H	O-amino acid
CH_3	H	H	O	Hypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	5-Fluorouracil	H	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-Aminoadenine	H	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	H	O	Thymine	H	O-acyl
CH_3	H	H	O	Uracil	H	O-acyl
CH_3	H	H	O	Guanine	H	O-acyl
CH_3	H	H	O	Cytosine	H	O-acyl
CH_3	H	H	O	Adenine	H	O-acyl
CH_3	H	H	O	Hypoxanthine	H	O-acyl
CH_3	H	H	O	5-Fluorouracil	H	O-acyl
CH_3	H	H	O	8-Fluoroguanine	H	O-acyl
CH_3	H	H	O	5-Fluorocytosine	H	O-acyl
CH_3	H	H	O	8-Fluoroadenine	H	O-acyl
CH_3	H	H	O	2-Fluoroadenine	H	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2-Aminoadenine	H	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	H	O	2-N-acetylguanine	H	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	6-N-acetyladenine	H	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	OH	O	Thymine	F	O-amino acid
CH_3	H	OH	O	Uracil	F	O-amino acid
CH_3	H	OH	O	Guanine	F	O-amino acid
CH_3	H	OH	O	Cytosine	F	O-amino acid
CH_3	H	OH	O	Adenine	F	O-amino acid
CH_3	H	OH	O	Hypoxanthine	F	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	F	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	F	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	OH	O	Thymine	F	O-acyl
CH_3	H	OH	O	Uracil	F	O-acyl
CH_3	H	OH	O	Guanine	F	O-acyl
CH_3	H	OH	O	Cytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	Adenine	F	O-acyl
CH_3	H	OH	O	Hypoxanthine	F	O-acyl
CH_3	H	OH	O	5-Fluorouracil	F	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	F	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	F	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	F	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-Aminoadenine	F	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	F	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	F	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	OH	O	Thymine	Br	O-amino acid
CH_3	H	OH	O	Uracil	Br	O-amino acid
CH_3	H	OH	O	Guanine	Br	O-amino acid
CH_3	H	OH	O	Cytosine	Br	O-amino acid
CH_3	H	OH	O	Adenine	Br	O-amino acid
CH_3	H	OH	O	Hypoxanthine	Br	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	Thymine	Br	O-acyl
CH_3	H	OH	O	Uracil	Br	O-acyl
CH_3	H	OH	O	Guanine	Br	O-acyl
CH_3	H	OH	O	Cytosine	Br	O-acyl
CH_3	H	OH	O	Adenine	Br	O-acyl
CH_3	H	OH	O	Hypoxanthine	Br	O-acyl
CH_3	H	OH	O	5-Fluorouracil	Br	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-Aminoadenine	Br	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	OH	O	Thymine	Cl	O-amino acid
CH_3	H	OH	O	Uracil	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	Guanine	Cl	O-amino acid
CH_3	H	OH	O	Cytosine	Cl	O-amino acid
CH_3	H	OH	O	Adenine	Cl	O-amino acid
CH_3	H	OH	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	Thymine	Cl	O-acyl
CH_3	H	OH	O	Uracil	Cl	O-acyl
CH_3	H	OH	O	Guanine	Cl	O-acyl
CH_3	H	OH	O	Cytosine	Cl	O-acyl
CH_3	H	OH	O	Adenine	Cl	O-acyl
CH_3	H	OH	O	Hypoxanthine	Cl	O-acyl
CH_3	H	OH	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	Thymine	H	O-amino acid
CH_3	H	OH	O	Uracil	H	O-amino acid
CH_3	H	OH	O	Guanine	H	O-amino acid
CH_3	H	OH	O	Cytosine	H	O-amino acid
CH_3	H	OH	O	Adenine	H	O-amino acid
CH_3	H	OH	O	Hypoxanthine	H	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	H	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	H	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	Thymine	H	O-acyl
CH_3	H	OH	O	Uracil	H	O-acyl
CH_3	H	OH	O	Guanine	H	O-acyl
CH_3	H	OH	O	Cytosine	H	O-acyl
CH_3	H	OH	O	Adenine	H	O-acyl
CH_3	H	OH	O	Hypoxanthine	H	O-acyl
CH_3	H	OH	O	5-Fluorouracil	H	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	H	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	H	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	H	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-Aminoadenine	H	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	H	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	H	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	Thymine	F	H
CF_3	O-acyl	F	O	Uracil	F	H
CF_3	O-acyl	F	O	Guanine	F	H
CF_3	O-acyl	F	O	Cytosine	F	H
CF_3	O-acyl	F	O	Adenine	F	H
CF_3	O-acyl	F	O	Hypoxanthine	F	H
CF_3	O-acyl	F	O	5-Fluorouracil	F	H
CF_3	O-acyl	F	O	8-Fluoroguanine	F	H
CF_3	O-acyl	F	O	5-Fluorocytosine	F	H
CF_3	O-acyl	F	O	8-Fluoroadenine	F	H
CF_3	O-acyl	F	O	2-Fluoroadenine	F	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2-Aminoadenine	F	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	F	O	2-N-acetylguanine	F	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	F	O	6-N-acetyladenine	F	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	F	O	Thymine	F	O-amino acid
CF_3	O-acyl	F	O	Uracil	F	O-amino acid
CF_3	O-acyl	F	O	Guanine	F	O-amino acid
CF_3	O-acyl	F	O	Cytosine	F	O-amino acid
CF_3	O-acyl	F	O	Adenine	F	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	Thymine	F	O-acyl
CF_3	O-acyl	F	O	Uracil	F	O-acyl
CF_3	O-acyl	F	O	Guanine	F	O-acyl
CF_3	O-acyl	F	O	Cytosine	F	O-acyl
CF_3	O-acyl	F	O	Adenine	F	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	Thymine	F	OH
CF_3	O-acyl	F	O	Uracil	F	OH
CF_3	O-acyl	F	O	Guanine	F	OH
CF_3	O-acyl	F	O	Cytosine	F	OH
CF_3	O-acyl	F	O	Adenine	F	OH
CF_3	O-acyl	F	O	Hypoxanthine	F	OH
CF_3	O-acyl	F	O	5-Fluorouracil	F	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-Aminoadenine	F	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	F	O	Thymine	Br	H
CF_3	O-acyl	F	O	Uracil	Br	H
CF_3	O-acyl	F	O	Guanine	Br	H
CF_3	O-acyl	F	O	Cytosine	Br	H
CF_3	O-acyl	F	O	Adenine	Br	H
CF_3	O-acyl	F	O	Hypoxanthine	Br	H
CF_3	O-acyl	F	O	5-Fluorouracil	Br	H
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-Aminoadenine	Br	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	F	O	Thymine	Br	O-amino acid
CF_3	O-acyl	F	O	Uracil	Br	O-amino acid
CF_3	O-acyl	F	O	Guanine	Br	O-amino acid
CF_3	O-acyl	F	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	F	O	Adenine	Br	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	Thymine	Br	O-acyl
CF_3	O-acyl	F	O	Uracil	Br	O-acyl
CF_3	O-acyl	F	O	Guanine	Br	O-acyl
CF_3	O-acyl	F	O	Cytosine	Br	O-acyl
CF_3	O-acyl	F	O	Adenine	Br	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	Thymine	Br	OH
CF_3	O-acyl	F	O	Uracil	Br	OH
CF_3	O-acyl	F	O	Guanine	Br	OH
CF_3	O-acyl	F	O	Cytosine	Br	OH
CF_3	O-acyl	F	O	Adenine	Br	OH
CF_3	O-acyl	F	O	Hypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	F	O	Thymine	Cl	O-acyl
CF_3	O-acyl	F	O	Uracil	Cl	O-acyl
CF_3	O-acyl	F	O	Guanine	Cl	O-acyl
CF_3	O-acyl	F	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	F	O	Adenine	Cl	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	Thymine	Cl	OH
CF_3	O-acyl	F	O	Uracil	Cl	OH
CF_3	O-acyl	F	O	Guanine	Cl	OH
CF_3	O-acyl	F	O	Cytosine	Cl	OH
CF_3	O-acyl	F	O	Adenine	Cl	OH
CF_3	O-acyl	F	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	Thymine	Cl	H
CF_3	O-acyl	F	O	Uracil	Cl	H
CF_3	O-acyl	F	O	Guanine	Cl	H
CF_3	O-acyl	F	O	Cytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	Adenine	Cl	H
CF_3	O-acyl	F	O	Hypoxanthine	Cl	H
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	F	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	F	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	F	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	F	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	Thymine	H	H
CF_3	O-acyl	F	O	Uracil	H	H
CF_3	O-acyl	F	O	Guanine	H	H
CF_3	O-acyl	F	O	Cytosine	H	H
CF_3	O-acyl	F	O	Adenine	H	H
CF_3	O-acyl	F	O	Hypoxanthine	H	H
CF_3	O-acyl	F	O	5-Fluorouracil	H	H
CF_3	O-acyl	F	O	8-Fluoroguanine	H	H
CF_3	O-acyl	F	O	5-Fluorocytosine	H	H
CF_3	O-acyl	F	O	8-Fluoroadenine	H	H
CF_3	O-acyl	F	O	2-Fluoroadenine	H	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2-Aminoadenine	H	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	F	O	2-N-acetylguanine	H	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	F	O	6-N-acetyladenine	H	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	F	O	Thymine	H	O-amino acid
CF_3	O-acyl	F	O	Uracil	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	Guanine	H	O-amino acid
CF_3	O-acyl	F	O	Cytosine	H	O-amino acid
CF_3	O-acyl	F	O	Adenine	H	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	Thymine	H	O-acyl
CF_3	O-acyl	F	O	Uracil	H	O-acyl
CF_3	O-acyl	F	O	Guanine	H	O-acyl
CF_3	O-acyl	F	O	Cytosine	H	O-acyl
CF_3	O-acyl	F	O	Adenine	H	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	Thymine	H	OH
CF_3	O-acyl	F	O	Uracil	H	OH
CF_3	O-acyl	F	O	Guanine	H	OH
CF_3	O-acyl	F	O	Cytosine	H	OH
CF_3	O-acyl	F	O	Adenine	H	OH
CF_3	O-acyl	F	O	Hypoxanthine	H	OH
CF_3	O-acyl	F	O	5-Fluorouracil	H	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-Aminoadenine	H	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	Thymine	OH	H
CF_3	O-acyl	F	O	Uracil	OH	H
CF_3	O-acyl	F	O	Guanine	OH	H
CF_3	O-acyl	F	O	Cytosine	OH	H
CF_3	O-acyl	F	O	Adenine	OH	H
CF_3	O-acyl	F	O	Hypoxanthine	OH	H
CF_3	O-acyl	F	O	5-Fluorouracil	OH	H
CF_3	O-acyl	F	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	F	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	F	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-Aminoadenine	OH	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	F	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Br	O	Thymine	F	H
CF_3	O-acyl	Br	O	Uracil	F	H
CF_3	O-acyl	Br	O	Guanine	F	H
CF_3	O-acyl	Br	O	Cytosine	F	H
CF_3	O-acyl	Br	O	Adenine	F	H
CF_3	O-acyl	Br	O	Hypoxanthine	F	H
CF_3	O-acyl	Br	O	5-Fluorouracil	F	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-Aminoadenine	F	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Br	O	Thymine	F	O-amino acid
CF_3	O-acyl	Br	O	Uracil	F	O-amino acid
CF_3	O-acyl	Br	O	Guanine	F	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	F	O-amino acid
CF_3	O-acyl	Br	O	Adenine	F	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	Thymine	F	O-acyl
CF_3	O-acyl	Br	O	Uracil	F	O-acyl
CF_3	O-acyl	Br	O	Guanine	F	O-acyl
CF_3	O-acyl	Br	O	Cytosine	F	O-acyl
CF_3	O-acyl	Br	O	Adenine	F	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	Thymine	F	OH
CF_3	O-acyl	Br	O	Uracil	F	OH
CF_3	O-acyl	Br	O	Guanine	F	OH
CF_3	O-acyl	Br	O	Cytosine	F	OH
CF_3	O-acyl	Br	O	Adenine	F	OH
CF_3	O-acyl	Br	O	Hypoxanthine	F	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	F	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	F	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Br	O	Thymine	Br	H
CF_3	O-acyl	Br	O	Uracil	Br	H
CF_3	O-acyl	Br	O	Guanine	Br	H
CF_3	O-acyl	Br	O	Cytosine	Br	H
CF_3	O-acyl	Br	O	Adenine	Br	H
CF_3	O-acyl	Br	O	Hypoxanthine	Br	H
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Br	O	Thymine	Br	O-amino acid
CF_3	O-acyl	Br	O	Uracil	Br	O-amino acid
CF_3	O-acyl	Br	O	Guanine	Br	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	Adenine	Br	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	Thymine	Br	O-acyl
CF_3	O-acyl	Br	O	Uracil	Br	O-acyl
CF_3	O-acyl	Br	O	Guanine	Br	O-acyl
CF_3	O-acyl	Br	O	Cytosine	Br	O-acyl
CF_3	O-acyl	Br	O	Adenine	Br	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	Thymine	Br	OH
CF_3	O-acyl	Br	O	Uracil	Br	OH
CF_3	O-acyl	Br	O	Guanine	Br	OH
CF_3	O-acyl	Br	O	Cytosine	Br	OH
CF_3	O-acyl	Br	O	Adenine	Br	OH
CF_3	O-acyl	Br	O	Hypoxanthine	Br	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	Thymine	Cl	H
CF_3	O-acyl	Br	O	Uracil	Cl	H
CF_3	O-acyl	Br	O	Guanine	Cl	H
CF_3	O-acyl	Br	O	Cytosine	Cl	H
CF_3	O-acyl	Br	O	Adenine	Cl	H
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	H
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	Br	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Thymine	Cl	O-acyl
CF_3	O-acyl	Br	O	Uracil	Cl	O-acyl
CF_3	O-acyl	Br	O	Guanine	Cl	O-acyl
CF_3	O-acyl	Br	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	Adenine	Cl	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	Thymine	Cl	OH
CF_3	O-acyl	Br	O	Uracil	Cl	OH
CF_3	O-acyl	Br	O	Guanine	Cl	OH
CF_3	O-acyl	Br	O	Cytosine	Cl	OH
CF_3	O-acyl	Br	O	Adenine	Cl	OH
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	Thymine	H	H
CF_3	O-acyl	Br	O	Uracil	H	H
CF_3	O-acyl	Br	O	Guanine	H	H
CF_3	O-acyl	Br	O	Cytosine	H	H
CF_3	O-acyl	Br	O	Adenine	H	H
CF_3	O-acyl	Br	O	Hypoxanthine	H	H
CF_3	O-acyl	Br	O	5-Fluorouracil	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-Aminoadenine	H	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Br	O	Thymine	H	O-amino acid
CF_3	O-acyl	Br	O	Uracil	H	O-amino acid
CF_3	O-acyl	Br	O	Guanine	H	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	H	O-amino acid
CF_3	O-acyl	Br	O	Adenine	H	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	Thymine	H	O-acyl
CF_3	O-acyl	Br	O	Uracil	H	O-acyl
CF_3	O-acyl	Br	O	Guanine	H	O-acyl
CF_3	O-acyl	Br	O	Cytosine	H	O-acyl
CF_3	O-acyl	Br	O	Adenine	H	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	Thymine	H	OH
CF_3	O-acyl	Br	O	Uracil	H	OH
CF_3	O-acyl	Br	O	Guanine	H	OH
CF_3	O-acyl	Br	O	Cytosine	H	OH
CF_3	O-acyl	Br	O	Adenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	Hypoxanthine	H	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	H	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	H	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Br	O	Thymine	OH	H
CF_3	O-acyl	Br	O	Uracil	OH	H
CF_3	O-acyl	Br	O	Guanine	OH	H
CF_3	O-acyl	Br	O	Cytosine	OH	H
CF_3	O-acyl	Br	O	Adenine	OH	H
CF_3	O-acyl	Br	O	Hypoxanthine	OH	H
CF_3	O-acyl	Br	O	5-Fluorouracil	OH	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-Aminoadenine	OH	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	Thymine	F	H
CF_3	O-acyl	Cl	O	Uracil	F	H
CF_3	O-acyl	Cl	O	Guanine	F	H
CF_3	O-acyl	Cl	O	Cytosine	F	H
CF_3	O-acyl	Cl	O	Adenine	F	H
CF_3	O-acyl	Cl	O	Hypoxanthine	F	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Cl	O	Thymine	F	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	F	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	Cytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	F	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	F	O-acyl
CF_3	O-acyl	Cl	O	Uracil	F	O-acyl
CF_3	O-acyl	Cl	O	Guanine	F	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	F	O-acyl
CF_3	O-acyl	Cl	O	Adenine	F	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	Thymine	F	OH
CF_3	O-acyl	Cl	O	Uracil	F	OH
CF_3	O-acyl	Cl	O	Guanine	F	OH
CF_3	O-acyl	Cl	O	Cytosine	F	OH
CF_3	O-acyl	Cl	O	Adenine	F	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	F	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	Thymine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	Uracil	Br	H
CF_3	O-acyl	Cl	O	Guanine	Br	H
CF_3	O-acyl	Cl	O	Cytosine	Br	H
CF_3	O-acyl	Cl	O	Adenine	Br	H
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	Thymine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	Br	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	Br	O-acyl
CF_3	O-acyl	Cl	O	Uracil	Br	O-acyl
CF_3	O-acyl	Cl	O	Guanine	Br	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	Adenine	Br	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	Thymine	Br	OH
CF_3	O-acyl	Cl	O	Uracil	Br	OH
CF_3	O-acyl	Cl	O	Guanine	Br	OH
CF_3	O-acyl	Cl	O	Cytosine	Br	OH
CF_3	O-acyl	Cl	O	Adenine	Br	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	Thymine	Cl	H
CF_3	O-acyl	Cl	O	Uracil	Cl	H
CF_3	O-acyl	Cl	O	Guanine	Cl	H
CF_3	O-acyl	Cl	O	Cytosine	Cl	H
CF_3	O-acyl	Cl	O	Adenine	Cl	H
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Uracil	Cl	O-acyl
CF_3	O-acyl	Cl	O	Guanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Adenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Thymine	Cl	OH
CF_3	O-acyl	Cl	O	Uracil	Cl	OH
CF_3	O-acyl	Cl	O	Guanine	Cl	OH
CF_3	O-acyl	Cl	O	Cytosine	Cl	OH
CF_3	O-acyl	Cl	O	Adenine	Cl	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	Thymine	H	H
CF_3	O-acyl	Cl	O	Uracil	H	H
CF_3	O-acyl	Cl	O	Guanine	H	H
CF_3	O-acyl	Cl	O	Cytosine	H	H
CF_3	O-acyl	Cl	O	Adenine	H	H
CF_3	O-acyl	Cl	O	Hypoxanthine	H	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Cl	O	Thymine	H	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	H	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	H	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	H	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	H	O-acyl
CF_3	O-acyl	Cl	O	Uracil	H	O-acyl
CF_3	O-acyl	Cl	O	Guanine	H	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	H	O-acyl
CF_3	O-acyl	Cl	O	Adenine	H	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	Thymine	H	OH
CF_3	O-acyl	Cl	O	Uracil	H	OH
CF_3	O-acyl	Cl	O	Guanine	H	OH
CF_3	O-acyl	Cl	O	Cytosine	H	OH
CF_3	O-acyl	Cl	O	Adenine	H	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	H	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	Thymine	OH	H
CF_3	O-acyl	Cl	O	Uracil	OH	H
CF_3	O-acyl	Cl	O	Guanine	OH	H
CF_3	O-acyl	Cl	O	Cytosine	OH	H
CF_3	O-acyl	Cl	O	Adenine	OH	H
CF_3	O-acyl	Cl	O	Hypoxanthine	OH	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	OH	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	OH	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	H	O	Thymine	F	H
CF_3	O-acyl	H	O	Uracil	F	H
CF_3	O-acyl	H	O	Guanine	F	H
CF_3	O-acyl	H	O	Cytosine	F	H
CF_3	O-acyl	H	O	Adenine	F	H
CF_3	O-acyl	H	O	Hypoxanthine	F	H
CF_3	O-acyl	H	O	5-Fluorouracil	F	H
CF_3	O-acyl	H	O	8-Fluoroguanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	5-Fluorocytosine	F	H
CF_3	O-acyl	H	O	8-Fluoroadenine	F	H
CF_3	O-acyl	H	O	2-Fluoroadenine	F	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2-Aminoadenine	F	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	H	O	2-N-acetylguanine	F	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	H	O	6-N-acetyladenine	F	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	H	O	Thymine	F	O-amino acid
CF_3	O-acyl	H	O	Uracil	F	O-amino acid
CF_3	O-acyl	H	O	Guanine	F	O-amino acid
CF_3	O-acyl	H	O	Cytosine	F	O-amino acid
CF_3	O-acyl	H	O	Adenine	F	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	Thymine	F	O-acyl
CF_3	O-acyl	H	O	Uracil	F	O-acyl
CF_3	O-acyl	H	O	Guanine	F	O-acyl
CF_3	O-acyl	H	O	Cytosine	F	O-acyl
CF_3	O-acyl	H	O	Adenine	F	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	Thymine	F	OH
CF_3	O-acyl	H	O	Uracil	F	OH
CF_3	O-acyl	H	O	Guanine	F	OH
CF_3	O-acyl	H	O	Cytosine	F	OH
CF_3	O-acyl	H	O	Adenine	F	OH
CF_3	O-acyl	H	O	Hypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	5-Fluorouracil	F	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-Aminoadenine	F	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	H	O	Thymine	Br	H
CF_3	O-acyl	H	O	Uracil	Br	H
CF_3	O-acyl	H	O	Guanine	Br	H
CF_3	O-acyl	H	O	Cytosine	Br	H
CF_3	O-acyl	H	O	Adenine	Br	H
CF_3	O-acyl	H	O	Hypoxanthine	Br	H
CF_3	O-acyl	H	O	5-Fluorouracil	Br	H
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-Aminoadenine	Br	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	H	O	Thymine	Br	O-amino acid
CF_3	O-acyl	H	O	Uracil	Br	O-amino acid
CF_3	O-acyl	H	O	Guanine	Br	O-amino acid
CF_3	O-acyl	H	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	H	O	Adenine	Br	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	Thymine	Br	O-acyl
CF_3	O-acyl	H	O	Uracil	Br	O-acyl
CF_3	O-acyl	H	O	Guanine	Br	O-acyl
CF_3	O-acyl	H	O	Cytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	Adenine	Br	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	Thymine	Br	OH
CF_3	O-acyl	H	O	Uracil	Br	OH
CF_3	O-acyl	H	O	Guanine	Br	OH
CF_3	O-acyl	H	O	Cytosine	Br	OH
CF_3	O-acyl	H	O	Adenine	Br	OH
CF_3	O-acyl	H	O	Hypoxanthine	Br	OH
CF_3	O-acyl	H	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	H	O	Thymine	Cl	H
CF_3	O-acyl	H	O	Uracil	Cl	H
CF_3	O-acyl	H	O	Guanine	Cl	H
CF_3	O-acyl	H	O	Cytosine	Cl	H
CF_3	O-acyl	H	O	Adenine	Cl	H
CF_3	O-acyl	H	O	Hypoxanthine	Cl	H
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	H	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	H	O	Uracil	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	H	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	Thymine	Cl	O-acyl
CF_3	O-acyl	H	O	Uracil	Cl	O-acyl
CF_3	O-acyl	H	O	Guanine	Cl	O-acyl
CF_3	O-acyl	H	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	H	O	Adenine	Cl	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	Thymine	Cl	OH
CF_3	O-acyl	H	O	Uracil	Cl	OH
CF_3	O-acyl	H	O	Guanine	Cl	OH
CF_3	O-acyl	H	O	Cytosine	Cl	OH
CF_3	O-acyl	H	O	Adenine	Cl	OH
CF_3	O-acyl	H	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	Thymine	H	H
CF_3	O-acyl	H	O	Uracil	H	H
CF_3	O-acyl	H	O	Guanine	H	H
CF_3	O-acyl	H	O	Cytosine	H	H
CF_3	O-acyl	H	O	Adenine	H	H
CF_3	O-acyl	H	O	Hypoxanthine	H	H
CF_3	O-acyl	H	O	5-Fluorouracil	H	H
CF_3	O-acyl	H	O	8-Fluoroguanine	H	H
CF_3	O-acyl	H	O	5-Fluorocytosine	H	H
CF_3	O-acyl	H	O	8-Fluoroadenine	H	H
CF_3	O-acyl	H	O	2-Fluoroadenine	H	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2-Aminoadenine	H	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	H	O	2-N-acetylguanine	H	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	H	O	6-N-acetyladenine	H	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	H	O	Thymine	H	O-amino acid
CF_3	O-acyl	H	O	Uracil	H	O-amino acid
CF_3	O-acyl	H	O	Guanine	H	O-amino acid
CF_3	O-acyl	H	O	Cytosine	H	O-amino acid
CF_3	O-acyl	H	O	Adenine	H	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	Thymine	H	O-acyl
CF_3	O-acyl	H	O	Uracil	H	O-acyl
CF_3	O-acyl	H	O	Guanine	H	O-acyl
CF_3	O-acyl	H	O	Cytosine	H	O-acyl
CF_3	O-acyl	H	O	Adenine	H	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	Thymine	H	OH
CF_3	O-acyl	H	O	Uracil	H	OH
CF_3	O-acyl	H	O	Guanine	H	OH
CF_3	O-acyl	H	O	Cytosine	H	OH
CF_3	O-acyl	H	O	Adenine	H	OH
CF_3	O-acyl	H	O	Hypoxanthine	H	OH
CF_3	O-acyl	H	O	5-Fluorouracil	H	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-Aminoadenine	H	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	H	O	Thymine	OH	H
CF_3	O-acyl	H	O	Uracil	OH	H
CF_3	O-acyl	H	O	Guanine	OH	H
CF_3	O-acyl	H	O	Cytosine	OH	H
CF_3	O-acyl	H	O	Adenine	OH	H
CF_3	O-acyl	H	O	Hypoxanthine	OH	H
CF_3	O-acyl	H	O	5-Fluorouracil	OH	H
CF_3	O-acyl	H	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	H	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	H	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-Aminoadenine	OH	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	H	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	F	O	Thymine	F	H
CF_3	O-amino acid	F	O	Uracil	F	H
CF_3	O-amino acid	F	O	Guanine	F	H
CF_3	O-amino acid	F	O	Cytosine	F	H
CF_3	O-amino acid	F	O	Adenine	F	H
CF_3	O-amino acid	F	O	Hypoxanthine	F	H
CF_3	O-amino acid	F	O	5-Fluorouracil	F	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-Aminoadenine	F	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	F	O	Thymine	F	O-amino acid
CF_3	O-amino acid	F	O	Uracil	F	O-amino acid
CF_3	O-amino acid	F	O	Guanine	F	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	F	O	Adenine	F	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	Thymine	F	O-acyl
CF_3	O-amino acid	F	O	Uracil	F	O-acyl
CF_3	O-amino acid	F	O	Guanine	F	O-acyl
CF_3	O-amino acid	F	O	Cytosine	F	O-acyl
CF_3	O-amino acid	F	O	Adenine	F	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	Thymine	F	OH
CF_3	O-amino acid	F	O	Uracil	F	OH
CF_3	O-amino acid	F	O	Guanine	F	OH
CF_3	O-amino acid	F	O	Cytosine	F	OH
CF_3	O-amino acid	F	O	Adenine	F	OH
CF_3	O-amino acid	F	O	Hypoxanthine	F	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	F	O	Thymine	Br	H
CF_3	O-amino acid	F	O	Uracil	Br	H
CF_3	O-amino acid	F	O	Guanine	Br	H
CF_3	O-amino acid	F	O	Cytosine	Br	H
CF_3	O-amino acid	F	O	Adenine	Br	H
CF_3	O-amino acid	F	O	Hypoxanthine	Br	H
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	F	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	F	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	F	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	Thymine	Br	O-acyl
CF_3	O-amino acid	F	O	Uracil	Br	O-acyl
CF_3	O-amino acid	F	O	Guanine	Br	O-acyl
CF_3	O-amino acid	F	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	F	O	Adenine	Br	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	Thymine	Br	OH
CF_3	O-amino acid	F	O	Uracil	Br	OH
CF_3	O-amino acid	F	O	Guanine	Br	OH
CF_3	O-amino acid	F	O	Cytosine	Br	OH
CF_3	O-amino acid	F	O	Adenine	Br	OH
CF_3	O-amino acid	F	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	Thymine	Cl	H
CF_3	O-amino acid	F	O	Uracil	Cl	H
CF_3	O-amino acid	F	O	Guanine	Cl	H
CF_3	O-amino acid	F	O	Cytosine	Cl	H
CF_3	O-amino acid	F	O	Adenine	Cl	H
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	F	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	F	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	F	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	F	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	Thymine	Cl	OH
CF_3	O-amino acid	F	O	Uracil	Cl	OH
CF_3	O-amino acid	F	O	Guanine	Cl	OH
CF_3	O-amino acid	F	O	Cytosine	Cl	OH
CF_3	O-amino acid	F	O	Adenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	Thymine	H	H
CF_3	O-amino acid	F	O	Uracil	H	H
CF_3	O-amino acid	F	O	Guanine	H	H
CF_3	O-amino acid	F	O	Cytosine	H	H
CF_3	O-amino acid	F	O	Adenine	H	H
CF_3	O-amino acid	F	O	Hypoxanthine	H	H
CF_3	O-amino acid	F	O	5-Fluorouracil	H	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-Aminoadenine	H	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	F	O	Thymine	H	O-amino acid
CF_3	O-amino acid	F	O	Uracil	H	O-amino acid
CF_3	O-amino acid	F	O	Guanine	H	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	F	O	Adenine	H	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	Thymine	H	O-acyl
CF_3	O-amino acid	F	O	Uracil	H	O-acyl
CF_3	O-amino acid	F	O	Guanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	Cytosine	H	O-acyl
CF_3	O-amino acid	F	O	Adenine	H	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	Thymine	H	OH
CF_3	O-amino acid	F	O	Uracil	H	OH
CF_3	O-amino acid	F	O	Guanine	H	OH
CF_3	O-amino acid	F	O	Cytosine	H	OH
CF_3	O-amino acid	F	O	Adenine	H	OH
CF_3	O-amino acid	F	O	Hypoxanthine	H	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	F	O	Thymine	OH	H
CF_3	O-amino acid	F	O	Uracil	OH	H
CF_3	O-amino acid	F	O	Guanine	OH	H
CF_3	O-amino acid	F	O	Cytosine	OH	H
CF_3	O-amino acid	F	O	Adenine	OH	H
CF_3	O-amino acid	F	O	Hypoxanthine	OH	H
CF_3	O-amino acid	F	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	Thymine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	Uracil	F	H
CF_3	O-amino acid	Br	O	Guanine	F	H
CF_3	O-amino acid	Br	O	Cytosine	F	H
CF_3	O-amino acid	Br	O	Adenine	F	H
CF_3	O-amino acid	Br	O	Hypoxanthine	F	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Br	O	Thymine	F	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	F	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	F	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	F	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	F	O-acyl
CF_3	O-amino acid	Br	O	Uracil	F	O-acyl
CF_3	O-amino acid	Br	O	Guanine	F	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	F	O-acyl
CF_3	O-amino acid	Br	O	Adenine	F	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	Thymine	F	OH
CF_3	O-amino acid	Br	O	Uracil	F	OH
CF_3	O-amino acid	Br	O	Guanine	F	OH
CF_3	O-amino acid	Br	O	Cytosine	F	OH
CF_3	O-amino acid	Br	O	Adenine	F	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	F	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	Thymine	Br	H
CF_3	O-amino acid	Br	O	Uracil	Br	H
CF_3	O-amino acid	Br	O	Guanine	Br	H
CF_3	O-amino acid	Br	O	Cytosine	Br	H
CF_3	O-amino acid	Br	O	Adenine	Br	H
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	Br	O-acyl
CF_3	O-amino acid	Br	O	Uracil	Br	O-acyl
CF_3	O-amino acid	Br	O	Guanine	Br	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	Adenine	Br	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	Thymine	Br	OH
CF_3	O-amino acid	Br	O	Uracil	Br	OH
CF_3	O-amino acid	Br	O	Guanine	Br	OH
CF_3	O-amino acid	Br	O	Cytosine	Br	OH
CF_3	O-amino acid	Br	O	Adenine	Br	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	Thymine	Cl	H
CF_3	O-amino acid	Br	O	Uracil	Cl	H
CF_3	O-amino acid	Br	O	Guanine	Cl	H
CF_3	O-amino acid	Br	O	Cytosine	Cl	H
CF_3	O-amino acid	Br	O	Adenine	Cl	H
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	Br	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Thymine	Cl	OH
CF_3	O-amino acid	Br	O	Uracil	Cl	OH
CF_3	O-amino acid	Br	O	Guanine	Cl	OH
CF_3	O-amino acid	Br	O	Cytosine	Cl	OH
CF_3	O-amino acid	Br	O	Adenine	Cl	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	Thymine	H	H
CF_3	O-amino acid	Br	O	Uracil	H	H
CF_3	O-amino acid	Br	O	Guanine	H	H
CF_3	O-amino acid	Br	O	Cytosine	H	H
CF_3	O-amino acid	Br	O	Adenine	H	H
CF_3	O-amino acid	Br	O	Hypoxanthine	H	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Br	O	Thymine	H	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	H	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	H	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	H	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	H	O-acyl
CF_3	O-amino acid	Br	O	Uracil	H	O-acyl
CF_3	O-amino acid	Br	O	Guanine	H	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	H	O-acyl
CF_3	O-amino acid	Br	O	Adenine	H	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	Thymine	H	OH
CF_3	O-amino acid	Br	O	Uracil	H	OH
CF_3	O-amino acid	Br	O	Guanine	H	OH
CF_3	O-amino acid	Br	O	Cytosine	H	OH
CF_3	O-amino acid	Br	O	Adenine	H	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	H	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	Thymine	OH	H
CF_3	O-amino acid	Br	O	Uracil	OH	H
CF_3	O-amino acid	Br	O	Guanine	OH	H
CF_3	O-amino acid	Br	O	Cytosine	OH	H
CF_3	O-amino acid	Br	O	Adenine	OH	H
CF_3	O-amino acid	Br	O	Hypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-an) acid	Br	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	Thymine	F	H
CF_3	O-amino acid	Cl	O	Uracil	F	H
CF_3	O-amino acid	Cl	O	Guanine	F	H
CF_3	O-amino acid	Cl	O	Cytosine	F	H
CF_3	O-amino acid	Cl	O	Adenine	F	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	Thymine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	F	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	F	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	F	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	F	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	Adenine	F	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	F	OH
CF_3	O-amino acid	Cl	O	Uracil	F	OH
CF_3	O-amino acid	Cl	O	Guanine	F	OH
CF_3	O-amino acid	Cl	O	Cytosine	F	OH
CF_3	O-amino acid	Cl	O	Adenine	F	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	Thymine	Br	H
CF_3	O-amino acid	Cl	O	Uracil	Br	H
CF_3	O-amino acid	Cl	O	Guanine	Br	H
CF_3	O-amino acid	Cl	O	Cytosine	Br	H
CF_3	O-amino acid	Cl	O	Adenine	Br	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	Br	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	Br	OH
CF_3	O-amino acid	Cl	O	Uracil	Br	OH
CF_3	O-amino acid	Cl	O	Guanine	Br	OH
CF_3	O-amino acid	Cl	O	Cytosine	Br	OH
CF_3	O-amino acid	Cl	O	Adenine	Br	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	Thymine	Cl	H
CF_3	O-amino acid	Cl	O	Uracil	Cl	H
CF_3	O-amino acid	Cl	O	Guanine	Cl	H
CF_3	O-amino acid	Cl	O	Cytosine	Cl	H
CF_3	O-amino acid	Cl	O	Adenine	Cl	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	Cl	OH
CF_3	O-amino acid	Cl	O	Uracil	Cl	OH
CF_3	O-amino acid	Cl	O	Guanine	Cl	OH
CF_3	O-amino acid	Cl	O	Cytosine	Cl	OH
CF_3	O-amino acid	Cl	O	Adenine	Cl	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	Thymine	H	H
CF_3	O-amino acid	Cl	O	Uracil	H	H
CF_3	O-amino acid	Cl	O	Guanine	H	H
CF_3	O-amino acid	Cl	O	Cytosine	H	H
CF_3	O-amino acid	Cl	O	Adenine	H	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	Thymine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	H	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	H	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	H	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	H	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	H	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	H	OH
CF_3	O-amino acid	Cl	O	Uracil	H	OH
CF_3	O-amino acid	Cl	O	Guanine	H	OH
CF_3	O-amino acid	Cl	O	Cytosine	H	OH
CF_3	O-amino acid	Cl	O	Adenine	H	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	Thymine	OH	H
CF_3	O-amino acid	Cl	O	Uracil	OH	H
CF_3	O-amino acid	Cl	O	Guanine	OH	H
CF_3	O-amino acid	Cl	O	Cytosine	OH	H
CF_3	O-amino acid	Cl	O	Adenine	OH	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	H	O	Thymine	F	H
CF_3	O-amino acid	H	O	Uracil	F	H
CF_3	O-amino acid	H	O	Guanine	F	H
CF_3	O-amino acid	H	O	Cytosine	F	H
CF_3	O-amino acid	H	O	Adenine	F	H
CF_3	O-amino acid	H	O	Hypoxanthine	F	H
CF_3	O-amino acid	H	O	5-Fluorouracil	F	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-Aminoadenine	F	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	H	O	Thymine	F	O-amino acid
CF_3	O-amino acid	H	O	Uracil	F	O-amino acid
CF_3	O-amino acid	H	O	Guanine	F	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	H	O	Adenine	F	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	Thymine	F	O-acyl
CF_3	O-amino acid	H	O	Uracil	F	O-acyl
CF_3	O-amino acid	H	O	Guanine	F	O-acyl
CF_3	O-amino acid	H	O	Cytosine	F	O-acyl
CF_3	O-amino acid	H	O	Adenine	F	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	Thymine	F	OH
CF_3	O-amino acid	H	O	Uracil	F	OH
CF_3	O-amino acid	H	O	Guanine	F	OH
CF_3	O-amino acid	H	O	Cytosine	F	OH
CF_3	O-amino acid	H	O	Adenine	F	OH
CF_3	O-amino acid	H	O	Hypoxanthine	F	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	H	O	Thymine	Br	H
CF_3	O-amino acid	H	O	Uracil	Br	H
CF_3	O-amino acid	H	O	Guanine	Br	H
CF_3	O-amino acid	H	O	Cytosine	Br	H
CF_3	O-amino acid	H	O	Adenine	Br	H
CF_3	O-amino acid	H	O	Hypoxanthine	Br	H
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	H	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	H	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	H	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	Thymine	Br	O-acyl
CF_3	O-amino acid	H	O	Uracil	Br	O-acyl
CF_3	O-amino acid	H	O	Guanine	Br	O-acyl
CF_3	O-amino acid	H	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	H	O	Adenine	Br	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	Thymine	Br	OH
CF_3	O-amino acid	H	O	Uracil	Br	OH
CF_3	O-amino acid	H	O	Guanine	Br	OH
CF_3	O-amino acid	H	O	Cytosine	Br	OH
CF_3	O-amino acid	H	O	Adenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	Thymine	Cl	H
CF_3	O-amino acid	H	O	Uracil	Cl	H
CF_3	O-amino acid	H	O	Guanine	Cl	H
CF_3	O-amino acid	H	O	Cytosine	Cl	H
CF_3	O-amino acid	H	O	Adenine	Cl	H
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	H	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	H	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	H	O	Guanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	Thymine	Cl	OH
CF_3	O-amino acid	H	O	Uracil	Cl	OH
CF_3	O-amino acid	H	O	Guanine	Cl	OH
CF_3	O-amino acid	H	O	Cytosine	Cl	OH
CF_3	O-amino acid	H	O	Adenine	Cl	OH
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	Thymine	H	H
CF_3	O-amino acid	H	O	Uracil	H	H
CF_3	O-amino acid	H	O	Guanine	H	H
CF_3	O-amino acid	H	O	Cytosine	H	H
CF_3	O-amino acid	H	O	Adenine	H	H
CF_3	O-amino acid	H	O	Hypoxanthine	H	H
CF_3	O-amino acid	H	O	5-Fluorouracil	H	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-Aminoadenine	H	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	H	O	Thymine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	Uracil	H	O-amino acid
CF_3	O-amino acid	H	O	Guanine	H	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	H	O	Adenine	H	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	Thymine	H	O-acyl
CF_3	O-amino acid	H	O	Uracil	H	O-acyl
CF_3	O-amino acid	H	O	Guanine	H	O-acyl
CF_3	O-amino acid	H	O	Cytosine	H	O-acyl
CF_3	O-amino acid	H	O	Adenine	H	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	Thymine	H	OH
CF_3	O-amino acid	H	O	Uracil	H	OH
CF_3	O-amino acid	H	O	Guanine	H	OH
CF_3	O-amino acid	H	O	Cytosine	H	OH
CF_3	O-amino acid	H	O	Adenine	H	OH
CF_3	O-amino acid	H	O	Hypoxanthine	H	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	H	O	Thymine	OH	H
CF_3	O-amino acid	H	O	Uracil	OH	H
CF_3	O-amino acid	H	O	Guanine	OH	H
CF_3	O-amino acid	H	O	Cytosine	OH	H
CF_3	O-amino acid	H	O	Adenine	OH	H
CF_3	O-amino acid	H	O	Hypoxanthine	OH	H
CF_3	O-amino acid	H	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	OH	F	O	Thymine	F	O-amino acid
CF_3	OH	F	O	Uracil	F	O-amino acid
CF_3	OH	F	O	Guanine	F	O-amino acid
CF_3	OH	F	O	Cytosine	F	O-amino acid
CF_3	OH	F	O	Adenine	F	O-amino acid
CF_3	OH	F	O	Hypoxanthine	F	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	F	O	Thymine	F	O-acyl
CF_3	OH	F	O	Uracil	F	O-acyl
CF_3	OH	F	O	Guanine	F	O-acyl
CF_3	OH	F	O	Cytosine	F	O-acyl
CF_3	OH	F	O	Adenine	F	O-acyl
CF_3	OH	F	O	Hypoxanthine	F	O-acyl
CF_3	OH	F	O	5-Fluorouracil	F	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-Aminoadenine	F	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	F	O	Thymine	Br	O-amino acid
CF_3	OH	F	O	Uracil	Br	O-amino acid
CF_3	OH	F	O	Guanine	Br	O-amino acid
CF_3	OH	F	O	Cytosine	Br	O-amino acid
CF_3	OH	F	O	Adenine	Br	O-amino acid
CF_3	OH	F	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	Thymine	Br	O-acyl
CF_3	OH	F	O	Uracil	Br	O-acyl
CF_3	OH	F	O	Guanine	Br	O-acyl
CF_3	OH	F	O	Cytosine	Br	O-acyl
CF_3	OH	F	O	Adenine	Br	O-acyl
CF_3	OH	F	O	Hypoxanthine	Br	O-acyl
CF_3	OH	F	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	F	O	Thymine	Cl	O-amino acid
CF_3	OH	F	O	Uracil	Cl	O-amino acid
CF_3	OH	F	O	Guanine	Cl	O-amino acid
CF_3	OH	F	O	Cytosine	Cl	O-amino acid
CF_3	OH	F	O	Adenine	Cl	O-amino acid
CF_3	OH	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	Thymine	Cl	O-acyl
CF_3	OH	F	O	Uracil	Cl	O-acyl
CF_3	OH	F	O	Guanine	Cl	O-acyl
CF_3	OH	F	O	Cytosine	Cl	O-acyl
CF_3	OH	F	O	Adenine	Cl	O-acyl
CF_3	OH	F	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	Thymine	H	O-amino acid
CF_3	OH	F	O	Uracil	H	O-amino acid
CF_3	OH	F	O	Guanine	H	O-amino acid
CF_3	OH	F	O	Cytosine	H	O-amino acid
CF_3	OH	F	O	Adenine	H	O-amino acid
CF_3	OH	F	O	Hypoxanthine	H	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	F	O	Thymine	H	O-acyl
CF_3	OH	F	O	Uracil	H	O-acyl
CF_3	OH	F	O	Guanine	H	O-acyl
CF_3	OH	F	O	Cytosine	H	O-acyl
CF_3	OH	F	O	Adenine	H	O-acyl
CF_3	OH	F	O	Hypoxanthine	H	O-acyl
CF_3	OH	F	O	5-Fluorouracil	H	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-Aminoadenine	H	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Br	O	Thymine	F	O-amino acid
CF_3	OH	Br	O	Uracil	F	O-amino acid
CF_3	OH	Br	O	Guanine	F	O-amino acid
CF_3	OH	Br	O	Cytosine	F	O-amino acid
CF_3	OH	Br	O	Adenine	F	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	F	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	Thymine	F	O-acyl
CF_3	OH	Br	O	Uracil	F	O-acyl
CF_3	OH	Br	O	Guanine	F	O-acyl
CF_3	OH	Br	O	Cytosine	F	O-acyl
CF_3	OH	Br	O	Adenine	F	O-acyl
CF_3	OH	Br	O	Hypoxanthine	F	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	F	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	F	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Br	O	Thymine	Br	O-amino acid
CF_3	OH	Br	O	Uracil	Br	O-amino acid
CF_3	OH	Br	O	Guanine	Br	O-amino acid
CF_3	OH	Br	O	Cytosine	Br	O-amino acid
CF_3	OH	Br	O	Adenine	Br	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	Thymine	Br	O-acyl
CF_3	OH	Br	O	Uracil	Br	O-acyl
CF_3	OH	Br	O	Guanine	Br	O-acyl
CF_3	OH	Br	O	Cytosine	Br	O-acyl
CF_3	OH	Br	O	Adenine	Br	O-acyl
CF_3	OH	Br	O	Hypoxanthine	Br	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	Thymine	Cl	O-amino acid
CF_3	OH	Br	O	Uracil	Cl	O-amino acid
CF_3	OH	Br	O	Guanine	Cl	O-amino acid
CF_3	OH	Br	O	Cytosine	Cl	O-amino acid
CF_3	OH	Br	O	Adenine	Cl	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	Thymine	Cl	O-acyl
CF_3	OH	Br	O	Uracil	Cl	O-acyl
CF_3	OH	Br	O	Guanine	Cl	O-acyl
CF_3	OH	Br	O	Cytosine	Cl	O-acyl
CF_3	OH	Br	O	Adenine	Cl	O-acyl
CF_3	OH	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	Thymine	H	O-amino acid
CF_3	OH	Br	O	Uracil	H	O-amino acid
CF_3	OH	Br	O	Guanine	H	O-amino acid
CF_3	OH	Br	O	Cytosine	H	O-amino acid
CF_3	OH	Br	O	Adenine	H	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	H	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	Thymine	H	O-acyl
CF_3	OH	Br	O	Uracil	H	O-acyl
CF_3	OH	Br	O	Guanine	H	O-acyl
CF_3	OH	Br	O	Cytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	Adenine	H	O-acyl
CF_3	OH	Br	O	Hypoxanthine	H	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	H	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	H	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	Thymine	F	O-amino acid
CF_3	OH	Cl	O	Uracil	F	O-amino acid
CF_3	OH	Cl	O	Guanine	F	O-amino acid
CF_3	OH	Cl	O	Cytosine	F	O-amino acid
CF_3	OH	Cl	O	Adenine	F	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	Thymine	F	O-acyl
CF_3	OH	Cl	O	Uracil	F	O-acyl
CF_3	OH	Cl	O	Guanine	F	O-acyl
CF_3	OH	Cl	O	Cytosine	F	O-acyl
CF_3	OH	Cl	O	Adenine	F	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	F	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	Thymine	Br	O-amino acid
CF_3	OH	Cl	O	Uracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	Guanine	Br	O-amino acid
CF_3	OH	Cl	O	Cytosine	Br	O-amino acid
CF_3	OH	Cl	O	Adenine	Br	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	Thymine	Br	O-acyl
CF_3	OH	Cl	O	Uracil	Br	O-acyl
CF_3	OH	Cl	O	Guanine	Br	O-acyl
CF_3	OH	Cl	O	Cytosine	Br	O-acyl
CF_3	OH	Cl	O	Adenine	Br	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	Thymine	Cl	O-amino acid
CF_3	OH	Cl	O	Uracil	Cl	O-amino acid
CF_3	OH	Cl	O	Guanine	Cl	O-amino acid
CF_3	OH	Cl	O	Cytosine	Cl	O-amino acid
CF_3	OH	Cl	O	Adenine	Cl	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	Thymine	Cl	O-acyl
CF_3	OH	Cl	O	Uracil	Cl	O-acyl
CF_3	OH	Cl	O	Guanine	Cl	O-acyl
CF_3	OH	Cl	O	Cytosine	Cl	O-acyl
CF_3	OH	Cl	O	Adenine	Cl	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	Thymine	H	O-amino acid
CF_3	OH	Cl	O	Uracil	H	O-amino acid
CF_3	OH	Cl	O	Guanine	H	O-amino acid
CF_3	OH	Cl	O	Cytosine	H	O-amino acid
CF_3	OH	Cl	O	Adenine	H	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	Thymine	H	O-acyl
CF_3	OH	Cl	O	Uracil	H	O-acyl
CF_3	OH	Cl	O	Guanine	H	O-acyl
CF_3	OH	Cl	O	Cytosine	H	O-acyl
CF_3	OH	Cl	O	Adenine	H	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	H	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	H	O	Thymine	F	O-amino acid
CF_3	OH	H	O	Uracil	F	O-amino acid
CF_3	OH	H	O	Guanine	F	O-amino acid
CF_3	OH	H	O	Cytosine	F	O-amino acid
CF_3	OH	H	O	Adenine	F	O-amino acid
CF_3	OH	H	O	Hypoxanthine	F	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	H	O	Thymine	F	O-acyl
CF_3	OH	H	O	Uracil	F	O-acyl
CF_3	OH	H	O	Guanine	F	O-acyl
CF_3	OH	H	O	Cytosine	F	O-acyl
CF_3	OH	H	O	Adenine	F	O-acyl
CF_3	OH	H	O	Hypoxanthine	F	O-acyl
CF_3	OH	H	O	5-Fluorouracil	F	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-Aminoadenine	F	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	H	O	Thymine	Br	O-amino acid
CF_3	OH	H	O	Uracil	Br	O-amino acid
CF_3	OH	H	O	Guanine	Br	O-amino acid
CF_3	OH	H	O	Cytosine	Br	O-amino acid
CF_3	OH	H	O	Adenine	Br	O-amino acid
CF_3	OH	H	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	Thymine	Br	O-acyl
CF_3	OH	H	O	Uracil	Br	O-acyl
CF_3	OH	H	O	Guanine	Br	O-acyl
CF_3	OH	H	O	Cytosine	Br	O-acyl
CF_3	OH	H	O	Adenine	Br	O-acyl
CF_3	OH	H	O	Hypoxanthine	Br	O-acyl
CF_3	OH	H	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	H	O	Thymine	Cl	O-amino acid
CF_3	OH	H	O	Uracil	Cl	O-amino acid
CF_3	OH	H	O	Guanine	Cl	O-amino acid
CF_3	OH	H	O	Cytosine	Cl	O-amino acid
CF_3	OH	H	O	Adenine	Cl	O-amino acid
CF_3	OH	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	Thymine	Cl	O-acyl
CF_3	OH	H	O	Uracil	Cl	O-acyl
CF_3	OH	H	O	Guanine	Cl	O-acyl
CF_3	OH	H	O	Cytosine	Cl	O-acyl
CF_3	OH	H	O	Adenine	Cl	O-acyl
CF_3	OH	H	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	Thymine	H	O-amino acid
CF_3	OH	H	O	Uracil	H	O-amino acid
CF_3	OH	H	O	Guanine	H	O-amino acid
CF_3	OH	H	O	Cytosine	H	O-amino acid
CF_3	OH	H	O	Adenine	H	O-amino acid
CF_3	OH	H	O	Hypoxanthine	H	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	H	O	Thymine	H	O-acyl
CF_3	OH	H	O	Uracil	H	O-acyl
CF_3	OH	H	O	Guanine	H	O-acyl
CF_3	OH	H	O	Cytosine	H	O-acyl
CF_3	OH	H	O	Adenine	H	O-acyl
CF_3	OH	H	O	Hypoxanthine	H	O-acyl
CF_3	OH	H	O	5-Fluorouracil	H	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-Aminoadenine	H	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	F	O	Thymine	F	O-amino acid
CF_3	H	F	O	Uracil	F	O-amino acid
CF_3	H	F	O	Guanine	F	O-amino acid
CF_3	H	F	O	Cytosine	F	O-amino acid
CF_3	H	F	O	Adenine	F	O-amino acid
CF_3	H	F	O	Hypoxanthine	F	O-amino acid
CF_3	H	F	O	5-Fluorouracil	F	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-Aminoadenine	F	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	F	O	Thymine	F	O-acyl
CF_3	H	F	O	Uracil	F	O-acyl
CF_3	H	F	O	Guanine	F	O-acyl
CF_3	H	F	O	Cytosine	F	O-acyl
CF_3	H	F	O	Adenine	F	O-acyl
CF_3	H	F	O	Hypoxanthine	F	O-acyl
CF_3	H	F	O	5-Fluorouracil	F	O-acyl
CF_3	H	F	O	8-Fluoroguanine	F	O-acyl
CF_3	H	F	O	5-Fluorocytosine	F	O-acyl
CF_3	H	F	O	8-Fluoroadenine	F	O-acyl
CF_3	H	F	O	2-Fluoroadenine	F	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2-Aminoadenine	F	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	F	O	2-N-acetylguanine	F	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	F	O	6-N-acetyladenine	F	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	F	O	Thymine	Br	O-amino acid
CF_3	H	F	O	Uracil	Br	O-amino acid
CF_3	H	F	O	Guanine	Br	O-amino acid
CF_3	H	F	O	Cytosine	Br	O-amino acid
CF_3	H	F	O	Adenine	Br	O-amino acid
CF_3	H	F	O	Hypoxanthine	Br	O-amino acid
CF_3	H	F	O	5-Fluorouracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	F	O	Thymine	Br	O-acyl
CF_3	H	F	O	Uracil	Br	O-acyl
CF_3	H	F	O	Guanine	Br	O-acyl
CF_3	H	F	O	Cytosine	Br	O-acyl
CF_3	H	F	O	Adenine	Br	O-acyl
CF_3	H	F	O	Hypoxanthine	Br	O-acyl
CF_3	H	F	O	5-Fluorouracil	Br	O-acyl
CF_3	H	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-Aminoadenine	Br	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	F	O	6-N-acetyladenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	F	O	Thymine	Cl	O-amino acid
CF_3	H	F	O	Uracil	Cl	O-amino acid
CF_3	H	F	O	Guanine	Cl	O-amino acid
CF_3	H	F	O	Cytosine	Cl	O-amino acid
CF_3	H	F	O	Adenine	Cl	O-amino acid
CF_3	H	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	Thymine	Cl	O-acyl
CF_3	H	F	O	Uracil	Cl	O-acyl
CF_3	H	F	O	Guanine	Cl	O-acyl
CF_3	H	F	O	Cytosine	Cl	O-acyl
CF_3	H	F	O	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	Hypoxanthine	Cl	O-acyl
CF_3	H	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	F	O	Thymine	H	O-amino acid
CF_3	H	F	O	Uracil	H	O-amino acid
CF_3	H	F	O	Guanine	H	O-amino acid
CF_3	H	F	O	Cytosine	H	O-amino acid
CF_3	H	F	O	Adenine	H	O-amino acid
CF_3	H	F	O	Hypoxanthine	H	O-amino acid
CF_3	H	F	O	5-Fluorouracil	H	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-Aminoadenine	H	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	F	O	Thymine	H	O-acyl
CF_3	H	F	O	Uracil	H	O-acyl
CF_3	H	F	O	Guanine	H	O-acyl
CF_3	H	F	O	Cytosine	H	O-acyl
CF_3	H	F	O	Adenine	H	O-acyl
CF_3	H	F	O	Hypoxanthine	H	O-acyl
CF_3	H	F	O	5-Fluorouracil	H	O-acyl
CF_3	H	F	O	8-Fluoroguanine	H	O-acyl
CF_3	H	F	O	5-Fluorocytosine	H	O-acyl
CF_3	H	F	O	8-Fluoroadenine	H	O-acyl
CF_3	H	F	O	2-Fluoroadenine	H	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2-Aminoadenine	H	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	F	O	2-N-acetylguanine	H	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	F	O	6-N-acetyladenine	H	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Br	O	Thymine	F	O-amino acid
CF_3	H	Br	O	Uracil	F	O-amino acid
CF_3	H	Br	O	Guanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	Cytosine	F	O-amino acid
CF_3	H	Br	O	Adenine	F	O-amino acid
CF_3	H	Br	O	Hypoxanthine	F	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Br	O	Thymine	F	O-acyl
CF_3	H	Br	O	Uracil	F	O-acyl
CF_3	H	Br	O	Guanine	F	O-acyl
CF_3	H	Br	O	Cytosine	F	O-acyl
CF_3	H	Br	O	Adenine	F	O-acyl
CF_3	H	Br	O	Hypoxanthine	F	O-acyl
CF_3	H	Br	O	5-Fluorouracil	F	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-Aminoadenine	F	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Br	O	Thymine	Br	O-amino acid
CF_3	H	Br	O	Uracil	Br	O-amino acid
CF_3	H	Br	O	Guanine	Br	O-amino acid
CF_3	H	Br	O	Cytosine	Br	O-amino acid
CF_3	H	Br	O	Adenine	Br	O-amino acid
CF_3	H	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	Thymine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	Uracil	Br	O-acyl
CF_3	H	Br	O	Guanine	Br	O-acyl
CF_3	H	Br	O	Cytosine	Br	O-acyl
CF_3	H	Br	O	Adenine	Br	O-acyl
CF_3	H	Br	O	Hypoxanthine	Br	O-acyl
CF_3	H	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Br	O	Thymine	Cl	O-amino acid
CF_3	H	Br	O	Uracil	Cl	O-amino acid
CF_3	H	Br	O	Guanine	Cl	O-amino acid
CF_3	H	Br	O	Cytosine	Cl	O-amino acid
CF_3	H	Br	O	Adenine	Cl	O-amino acid
CF_3	H	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	Thymine	Cl	O-acyl
CF_3	H	Br	O	Uracil	Cl	O-acyl
CF_3	H	Br	O	Guanine	Cl	O-acyl
CF_3	H	Br	O	Cytosine	Cl	O-acyl
CF_3	H	Br	O	Adenine	Cl	O-acyl
CF_3	H	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	H	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	Thymine	H	O-amino acid
CF_3	H	Br	O	Uracil	H	O-amino acid
CF_3	H	Br	O	Guanine	H	O-amino acid
CF_3	H	Br	O	Cytosine	H	O-amino acid
CF_3	H	Br	O	Adenine	H	O-amino acid
CF_3	H	Br	O	Hypoxanthine	H	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Br	O	Thymine	H	O-acyl
CF_3	H	Br	O	Uracil	H	O-acyl
CF_3	H	Br	O	Guanine	H	O-acyl
CF_3	H	Br	O	Cytosine	H	O-acyl
CF_3	H	Br	O	Adenine	H	O-acyl
CF_3	H	Br	O	Hypoxanthine	H	O-acyl
CF_3	H	Br	O	5-Fluorouracil	H	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-Aminoadenine	H	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Cl	O	Thymine	F	O-amino acid
CF_3	H	Cl	O	Uracil	F	O-amino acid
CF_3	H	Cl	O	Guanine	F	O-amino acid
CF_3	H	Cl	O	Cytosine	F	O-amino acid
CF_3	H	Cl	O	Adenine	F	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	Thymine	F	O-acyl
CF_3	H	Cl	O	Uracil	F	O-acyl
CF_3	H	Cl	O	Guanine	F	O-acyl
CF_3	H	Cl	O	Cytosine	F	O-acyl
CF_3	H	Cl	O	Adenine	F	O-acyl
CF_3	H	Cl	O	Hypoxanthine	F	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Cl	O	Thymine	Br	O-amino acid
CF_3	H	Cl	O	Uracil	Br	O-amino acid
CF_3	H	Cl	O	Guanine	Br	O-amino acid
CF_3	H	Cl	O	Cytosine	Br	O-amino acid
CF_3	H	Cl	O	Adenine	Br	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	Thymine	Br	O-acyl
CF_3	H	Cl	O	Uracil	Br	O-acyl
CF_3	H	Cl	O	Guanine	Br	O-acyl
CF_3	H	Cl	O	Cytosine	Br	O-acyl
CF_3	H	Cl	O	Adenine	Br	O-acyl
CF_3	H	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	Br	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	Thymine	Cl	O-amino acid
CF_3	H	Cl	O	Uracil	Cl	O-amino acid
CF_3	H	Cl	O	Guanine	Cl	O-amino acid
CF_3	H	Cl	O	Cytosine	Cl	O-amino acid
CF_3	H	Cl	O	Adenine	Cl	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	Thymine	Cl	O-acyl
CF_3	H	Cl	O	Uracil	Cl	O-acyl
CF_3	H	Cl	O	Guanine	Cl	O-acyl
CF_3	H	Cl	O	Cytosine	Cl	O-acyl
CF_3	H	Cl	O	Adenine	Cl	O-acyl
CF_3	H	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	Thymine	H	O-amino acid
CF_3	H	Cl	O	Uracil	H	O-amino acid
CF_3	H	Cl	O	Guanine	H	O-amino acid
CF_3	H	Cl	O	Cytosine	H	O-amino acid
CF_3	H	Cl	O	Adenine	H	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	Thymine	H	O-acyl
CF_3	H	Cl	O	Uracil	H	O-acyl
CF_3	H	Cl	O	Guanine	H	O-acyl
CF_3	H	Cl	O	Cytosine	H	O-acyl
CF_3	H	Cl	O	Adenine	H	O-acyl
CF_3	H	Cl	O	Hypoxanthine	H	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	H	O	Thymine	F	O-amino acid
CF_3	H	H	O	Uracil	F	O-amino acid
CF_3	H	H	O	Guanine	F	O-amino acid
CF_3	H	H	O	Cytosine	F	O-amino acid
CF_3	H	H	O	Adenine	F	O-amino acid
CF_3	H	H	O	Hypoxanthine	F	O-amino acid
CF_3	H	H	O	5-Fluorouracil	F	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-Aminoadenine	F	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	H	O	Thymine	F	O-acyl
CF_3	H	H	O	Uracil	F	O-acyl
CF_3	H	H	O	Guanine	F	O-acyl
CF_3	H	H	O	Cytosine	F	O-acyl
CF_3	H	H	O	Adenine	F	O-acyl
CF_3	H	H	O	Hypoxanthine	F	O-acyl
CF_3	H	H	O	5-Fluorouracil	F	O-acyl
CF_3	H	H	O	8-Fluoroguanine	F	O-acyl
CF_3	H	H	O	5-Fluorocytosine	F	O-acyl
CF_3	H	H	O	8-Fluoroadenine	F	O-acyl
CF_3	H	H	O	2-Fluoroadenine	F	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2-Aminoadenine	F	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	H	O	2-N-acetylguanine	F	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	H	O	6-N-acetyladenine	F	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	H	O	Thymine	Br	O-amino acid
CF_3	H	H	O	Uracil	Br	O-amino acid
CF_3	H	H	O	Guanine	Br	O-amino acid
CF_3	H	H	O	Cytosine	Br	O-amino acid
CF_3	H	H	O	Adenine	Br	O-amino acid
CF_3	H	H	O	Hypoxanthine	Br	O-amino acid
CF_3	H	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	H	O	Thymine	Br	O-acyl
CF_3	H	H	O	Uracil	Br	O-acyl
CF_3	H	H	O	Guanine	Br	O-acyl
CF_3	H	H	O	Cytosine	Br	O-acyl
CF_3	H	H	O	Adenine	Br	O-acyl
CF_3	H	H	O	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	5-Fluorouracil	Br	O-acyl
CF_3	H	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-Aminoadenine	Br	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	H	O	Thymine	Cl	O-amino acid
CF_3	H	H	O	Uracil	Cl	O-amino acid
CF_3	H	H	O	Guanine	Cl	O-amino acid
CF_3	H	H	O	Cytosine	Cl	O-amino acid
CF_3	H	H	O	Adenine	Cl	O-amino acid
CF_3	H	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	Thymine	Cl	O-acyl
CF_3	H	H	O	Uracil	Cl	O-acyl
CF_3	H	H	O	Guanine	Cl	O-acyl
CF_3	H	H	O	Cytosine	Cl	O-acyl
CF_3	H	H	O	Adenine	Cl	O-acyl
CF_3	H	H	O	Hypoxanthine	Cl	O-acyl
CF_3	H	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	H	O	Thymine	H	O-amino acid
CF_3	H	H	O	Uracil	H	O-amino acid
CF_3	H	H	O	Guanine	H	O-amino acid
CF_3	H	H	O	Cytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	Adenine	H	O-amino acid
CF_3	H	H	O	Hypoxanthine	H	O-amino acid
CF_3	H	H	O	5-Fluorouracil	H	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-Aminoadenine	H	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	H	O	Thymine	H	O-acyl
CF_3	H	H	O	Uracil	H	O-acyl
CF_3	H	H	O	Guanine	H	O-acyl
CF_3	H	H	O	Cytosine	H	O-acyl
CF_3	H	H	O	Adenine	H	O-acyl
CF_3	H	H	O	Hypoxanthine	H	O-acyl
CF_3	H	H	O	5-Fluorouracil	H	O-acyl
CF_3	H	H	O	8-Fluoroguanine	H	O-acyl
CF_3	H	H	O	5-Fluorocytosine	H	O-acyl
CF_3	H	H	O	8-Fluoroadenine	H	O-acyl
CF_3	H	H	O	2-Fluoroadenine	H	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2-Aminoadenine	H	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	2-N-acetylguanine	H	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	H	O	6-N-acetyladenine	H	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	OH	O	Thymine	F	O-amino acid
CF_3	H	OH	O	Uracil	F	O-amino acid
CF_3	H	OH	O	Guanine	F	O-amino acid
CF_3	H	OH	O	Cytosine	F	O-amino acid
CF_3	H	OH	O	Adenine	F	O-amino acid
CF_3	H	OH	O	Hypoxanthine	F	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	F	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	F	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	OH	O	Thymine	F	O-acyl
CF_3	H	OH	O	Uracil	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	Guanine	F	O-acyl
CF_3	H	OH	O	Cytosine	F	O-acyl
CF_3	H	OH	O	Adenine	F	O-acyl
CF_3	H	OH	O	Hypoxanthine	F	O-acyl
CF_3	H	OH	O	5-Fluorouracil	F	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	F	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	F	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	F	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-Aminoadenine	F	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	F	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	F	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	OH	O	Thymine	Br	O-amino acid
CF_3	H	OH	O	Uracil	Br	O-amino acid
CF_3	H	OH	O	Guanine	Br	O-amino acid
CF_3	H	OH	O	Cytosine	Br	O-amino acid
CF_3	H	OH	O	Adenine	Br	O-amino acid
CF_3	H	OH	O	Hypoxanthine	Br	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	Thymine	Br	O-acyl
CF_3	H	OH	O	Uracil	Br	O-acyl
CF_3	H	OH	O	Guanine	Br	O-acyl
CF_3	H	OH	O	Cytosine	Br	O-acyl
CF_3	H	OH	O	Adenine	Br	O-acyl
CF_3	H	OH	O	Hypoxanthine	Br	O-acyl
CF_3	H	OH	O	5-Fluorouracil	Br	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-Aminoadenine	Br	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	Thymine	Cl	O-amino acid
CF_3	H	OH	O	Uracil	Cl	O-amino acid
CF_3	H	OH	O	Guanine	Cl	O-amino acid
CF_3	H	OH	O	Cytosine	Cl	O-amino acid
CF_3	H	OH	O	Adenine	Cl	O-amino acid
CF_3	H	OH	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	Thymine	Cl	O-acyl
CF_3	H	OH	O	Uracil	Cl	O-acyl
CF_3	H	OH	O	Guanine	Cl	O-acyl
CF_3	H	OH	O	Cytosine	Cl	O-acyl
CF_3	H	OH	O	Adenine	Cl	O-acyl
CF_3	H	OH	O	Hypoxanthine	Cl	O-acyl
CF_3	H	OH	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	Thymine	H	O-amino acid
CF_3	H	OH	O	Uracil	H	O-amino acid
CF_3	H	OH	O	Guanine	H	O-amino acid
CF_3	H	OH	O	Cytosine	H	O-amino acid
CF_3	H	OH	O	Adenine	H	O-amino acid
CF_3	H	OH	O	Hypoxanthine	H	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	H	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	H	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	OH	O	Thymine	H	O-acyl
CF_3	H	OH	O	Uracil	H	O-acyl
CF_3	H	OH	O	Guanine	H	O-acyl
CF_3	H	OH	O	Cytosine	H	O-acyl
CF_3	H	OH	O	Adenine	H	O-acyl
CF_3	H	OH	O	Hypoxanthine	H	O-acyl
CF_3	H	OH	O	5-Fluorouracil	H	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	H	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	H	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	H	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-Aminoadenine	H	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	H	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	H	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	Thymine	F	H
CH_3	O-acyl	F	S	Uracil	F	H
CH_3	O-acyl	F	S	Guanine	F	H
CH_3	O-acyl	F	S	Cytosine	F	H
CH_3	O-acyl	F	S	Adenine	F	H
CH_3	O-acyl	F	S	Hypoxanthine	F	H
CH_3	O-acyl	F	S	5-Fluorouracil	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	8-Fluoroguanine	F	H
CH_3	O-acyl	F	S	5-Fluorocytosine	F	H
CH_3	O-acyl	F	S	8-Fluoroadenine	F	H
CH_3	O-acyl	F	S	2-Fluoroadenine	F	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2-Aminoadenine	F	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	F	S	2-N-acetylguanine	F	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	F	S	6-N-acetyladenine	F	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	F	S	Thymine	F	O-amino acid
CH_3	O-acyl	F	S	Uracil	F	O-amino acid
CH_3	O-acyl	F	S	Guanine	F	O-amino acid
CH_3	O-acyl	F	S	Cytosine	F	O-amino acid
CH_3	O-acyl	F	S	Adenine	F	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	Thymine	F	O-acyl
CH_3	O-acyl	F	S	Uracil	F	O-acyl
CH_3	O-acyl	F	S	Guanine	F	O-acyl
CH_3	O-acyl	F	S	Cytosine	F	O-acyl
CH_3	O-acyl	F	S	Adenine	F	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	Thymine	F	OH
CH_3	O-acyl	F	S	Uracil	F	OH
CH_3	O-acyl	F	S	Guanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	Cytosine	F	OH
CH_3	O-acyl	F	S	Adenine	F	OH
CH_3	O-acyl	F	S	Hypoxanthine	F	OH
CH_3	O-acyl	F	S	5-Fluorouracil	F	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-Aminoadenine	F	OH
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	F	S	Thymine	Br	H
CH_3	O-acyl	F	S	Uracil	Br	H
CH_3	O-acyl	F	S	Guanine	Br	H
CH_3	O-acyl	F	S	Cytosine	Br	H
CH_3	O-acyl	F	S	Adenine	Br	H
CH_3	O-acyl	F	S	Hypoxanthine	Br	H
CH_3	O-acyl	F	S	5-Fluorouracil	Br	H
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	2-Aminoadenine	Br	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	F	S	Thymine	Br	O-amino acid
CH_3	O-acyl	F	S	Uracil	Br	O-amino acid
CH_3	O-acyl	F	S	Guanine	Br	O-amino acid
CH_3	O-acyl	F	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	F	S	Adenine	Br	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	Thymine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	Uracil	Br	O-acyl
CH_3	O-acyl	F	S	Guanine	Br	O-acyl
CH_3	O-acyl	F	S	Cytosine	Br	O-acyl
CH_3	O-acyl	F	S	Adenine	Br	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	Thymine	Br	OH
CH_3	O-acyl	F	S	Uracil	Br	OH
CH_3	O-acyl	F	S	Guanine	Br	OH
CH_3	O-acyl	F	S	Cytosine	Br	OH
CH_3	O-acyl	F	S	Adenine	Br	OH
CH_3	O-acyl	F	S	Hypoxanthine	Br	OH
CH_3	O-acyl	F	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-Aminoadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	F	S	Thymine	Cl	O-acyl
CH_3	O-acyl	F	S	Uracil	Cl	O-acyl
CH_3	O-acyl	F	S	Guanine	Cl	O-acyl
CH_3	O-acyl	F	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	F	S	Adenine	Cl	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	Thymine	Cl	OH
CH_3	O-acyl	F	S	Uracil	Cl	OH
CH_3	O-acyl	F	S	Guanine	Cl	OH
CH_3	O-acyl	F	S	Cytosine	Cl	OH
CH_3	O-acyl	F	S	Adenine	Cl	OH
CH_3	O-acyl	F	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	Thymine	Cl	H
CH_3	O-acyl	F	S	Uracil	Cl	H
CH_3	O-acyl	F	S	Guanine	Cl	H
CH_3	O-acyl	F	S	Cytosine	Cl	H
CH_3	O-acyl	F	S	Adenine	Cl	H
CH_3	O-acyl	F	S	Hypoxanthine	Cl	H
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	F	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	F	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	F	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	F	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	Thymine	H	H
CH_3	O-acyl	F	S	Uracil	H	H
CH_3	O-acyl	F	S	Guanine	H	H
CH_3	O-acyl	F	S	Cytosine	H	H
CH_3	O-acyl	F	S	Adenine	H	H
CH_3	O-acyl	F	S	Hypoxanthine	H	H
CH_3	O-acyl	F	S	5-Fluorouracil	H	H
CH_3	O-acyl	F	S	8-Fluoroguanine	H	H
CH_3	O-acyl	F	S	5-Fluorocytosine	H	H
CH_3	O-acyl	F	S	8-Fluoroadenine	H	H
CH_3	O-acyl	F	S	2-Fluoroadenine	H	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2-Aminoadenine	H	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	F	S	2-N-acetylguanine	H	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	F	S	6-N-acetyladenine	H	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	F	S	Thymine	H	O-amino acid
CH_3	O-acyl	F	S	Uracil	H	O-amino acid
CH_3	O-acyl	F	S	Guanine	H	O-amino acid
CH_3	O-acyl	F	S	Cytosine	H	O-amino acid
CH_3	O-acyl	F	S	Adenine	H	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	Thymine	H	O-acyl
CH_3	O-acyl	F	S	Uracil	H	O-acyl
CH_3	O-acyl	F	S	Guanine	H	O-acyl
CH_3	O-acyl	F	S	Cytosine	H	O-acyl
CH_3	O-acyl	F	S	Adenine	H	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	Thymine	H	OH
CH_3	O-acyl	F	S	Uracil	H	OH
CH_3	O-acyl	F	S	Guanine	H	OH
CH_3	O-acyl	F	S	Cytosine	H	OH
CH_3	O-acyl	F	S	Adenine	H	OH
CH_3	O-acyl	F	S	Hypoxanthine	H	OH
CH_3	O-acyl	F	S	5-Fluorouracil	H	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-Aminoadenine	H	OH
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	F	S	Thymine	OH	H
CH_3	O-acyl	F	S	Uracil	OH	H
CH_3	O-acyl	F	S	Guanine	OH	H
CH_3	O-acyl	F	S	Cytosine	OH	H
CH_3	O-acyl	F	S	Adenine	OH	H
CH_3	O-acyl	F	S	Hypoxanthine	OH	H
CH_3	O-acyl	F	S	5-Fluorouracil	OH	H
CH_3	O-acyl	F	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	F	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	F	S	8-Fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-Aminoadenine	OH	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	F	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Br	S	Thymine	F	H
CH_3	O-acyl	Br	S	Uracil	F	H
CH_3	O-acyl	Br	S	Guanine	F	H
CH_3	O-acyl	Br	S	Cytosine	F	H
CH_3	O-acyl	Br	S	Adenine	F	H
CH_3	O-acyl	Br	S	Hypoxanthine	F	H
CH_3	O-acyl	Br	S	5-Fluorouracil	F	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-Aminoadenine	F	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Br	S	Thymine	F	O-amino acid
CH_3	O-acyl	Br	S	Uracil	F	O-amino acid
CH_3	O-acyl	Br	S	Guanine	F	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	F	O-amino acid
CH_3	O-acyl	Br	S	Adenine	F	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	Thymine	F	O-acyl
CH_3	O-acyl	Br	S	Uracil	F	O-acyl
CH_3	O-acyl	Br	S	Guanine	F	O-acyl
CH_3	O-acyl	Br	S	Cytosine	F	O-acyl
CH_3	O-acyl	Br	S	Adenine	F	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	Thymine	F	OH
CH_3	O-acyl	Br	S	Uracil	F	OH
CH_3	O-acyl	Br	S	Guanine	F	OH
CH_3	O-acyl	Br	S	Cytosine	F	OH
CH_3	O-acyl	Br	S	Adenine	F	OH
CH_3	O-acyl	Br	S	Hypoxanthine	F	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	F	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-Aminoadenine	F	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Br	S	Thymine	Br	H
CH_3	O-acyl	Br	S	Uracil	Br	H
CH_3	O-acyl	Br	S	Guanine	Br	H
CH_3	O-acyl	Br	S	Cytosine	Br	H
CH_3	O-acyl	Br	S	Adenine	Br	H
CH_3	O-acyl	Br	S	Hypoxanthine	Br	H
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Br	S	Thymine	Br	O-amino acid
CH_3	O-acyl	Br	S	Uracil	Br	O-amino acid
CH_3	O-acyl	Br	S	Guanine	Br	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	Adenine	Br	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	Thymine	Br	O-acyl
CH_3	O-acyl	Br	S	Uracil	Br	O-acyl
CH_3	O-acyl	Br	S	Guanine	Br	O-acyl
CH_3	O-acyl	Br	S	Cytosine	Br	O-acyl
CH_3	O-acyl	Br	S	Adenine	Br	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	Thymine	Br	OH
CH_3	O-acyl	Br	S	Uracil	Br	OH
CH_3	O-acyl	Br	S	Guanine	Br	OH
CH_3	O-acyl	Br	S	Cytosine	Br	OH
CH_3	O-acyl	Br	S	Adenine	Br	OH
CH_3	O-acyl	Br	S	Hypoxanthine	Br	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	Thymine	Cl	H
CH_3	O-acyl	Br	S	Uracil	Cl	H
CH_3	O-acyl	Br	S	Guanine	Cl	H
CH_3	O-acyl	Br	S	Cytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	Adenine	Cl	H
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	H
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	Br	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Thymine	Cl	O-acyl
CH_3	O-acyl	Br	S	Uracil	Cl	O-acyl
CH_3	O-acyl	Br	S	Guanine	Cl	O-acyl
CH_3	O-acyl	Br	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	Adenine	Cl	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	Thymine	Cl	OH
CH_3	O-acyl	Br	S	Uracil	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	Guanine	Cl	OH
CH_3	O-acyl	Br	S	Cytosine	Cl	OH
CH_3	O-acyl	Br	S	Adenine	Cl	OH
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	Thymine	H	H
CH_3	O-acyl	Br	S	Uracil	H	H
CH_3	O-acyl	Br	S	Guanine	H	H
CH_3	O-acyl	Br	S	Cytosine	H	H
CH_3	O-acyl	Br	S	Adenine	H	H
CH_3	O-acyl	Br	S	Hypoxanthine	H	H
CH_3	O-acyl	Br	S	5-Fluorouracil	H	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-Aminoadenine	H	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Br	S	Thymine	H	O-amino acid
CH_3	O-acyl	Br	S	Uracil	H	O-amino acid
CH_3	O-acyl	Br	S	Guanine	H	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	H	O-amino acid
CH_3	O-acyl	Br	S	Adenine	H	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	Thymine	H	O-acyl
CH_3	O-acyl	Br	S	Uracil	H	O-acyl
CH_3	O-acyl	Br	S	Guanine	H	O-acyl
CH_3	O-acyl	Br	S	Cytosine	H	O-acyl
CH_3	O-acyl	Br	S	Adenine	H	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	Thymine	H	OH
CH_3	O-acyl	Br	S	Uracil	H	OH
CH_3	O-acyl	Br	S	Guanine	H	OH
CH_3	O-acyl	Br	S	Cytosine	H	OH
CH_3	O-acyl	Br	S	Adenine	H	OH
CH_3	O-acyl	Br	S	Hypoxanthine	H	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	H	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-Aminoadenine	H	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Br	S	Thymine	OH	H
CH_3	O-acyl	Br	S	Uracil	OH	H
CH_3	O-acyl	Br	S	Guanine	OH	H
CH_3	O-acyl	Br	S	Cytosine	OH	H
CH_3	O-acyl	Br	S	Adenine	OH	H
CH_3	O-acyl	Br	S	Hypoxanthine	OH	H
CH_3	O-acyl	Br	S	5-Fluorouracil	OH	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-Aminoadenine	OH	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	Thymine	F	H
CH_3	O-acyl	Cl	S	Uracil	F	H
CH_3	O-acyl	Cl	S	Guanine	F	H
CH_3	O-acyl	Cl	S	Cytosine	F	H
CH_3	O-acyl	Cl	S	Adenine	F	H
CH_3	O-acyl	Cl	S	Hypoxanthine	F	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Cl	S	Thymine	F	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	F	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	F	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	F	O-amino acid
CH_3	O-acyl	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	F	O-acyl
CH_3	O-acyl	Cl	S	Uracil	F	O-acyl
CH_3	O-acyl	Cl	S	Guanine	F	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	F	O-acyl
CH_3	O-acyl	Cl	S	Adenine	F	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	Thymine	F	OH
CH_3	O-acyl	Cl	S	Uracil	F	OH
CH_3	O-acyl	Cl	S	Guanine	F	OH
CH_3	O-acyl	Cl	S	Cytosine	F	OH
CH_3	O-acyl	Cl	S	Adenine	F	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	F	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	Thymine	Br	H
CH_3	O-acyl	Cl	S	Uracil	Br	H
CH_3	O-acyl	Cl	S	Guanine	Br	H
CH_3	O-acyl	Cl	S	Cytosine	Br	H
CH_3	O-acyl	Cl	S	Adenine	Br	H
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	Thymine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	Br	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	Br	O-acyl
CH_3	O-acyl	Cl	S	Uracil	Br	O-acyl
CH_3	O-acyl	Cl	S	Guanine	Br	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	Adenine	Br	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	Thymine	Br	OH
CH_3	O-acyl	Cl	S	Uracil	Br	OH
CH_3	O-acyl	Cl	S	Guanine	Br	OH
CH_3	O-acyl	Cl	S	Cytosine	Br	OH
CH_3	O-acyl	Cl	S	Adenine	Br	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	Thymine	Cl	H
CH_3	O-acyl	Cl	S	Uracil	Cl	H
CH_3	O-acyl	Cl	S	Guanine	Cl	H
CH_3	O-acyl	Cl	S	Cytosine	Cl	H
CH_3	O-acyl	Cl	S	Adenine	Cl	H
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Uracil	Cl	O-acyl
CH_3	O-acyl	Cl	S	Guanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Adenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Thymine	Cl	OH
CH_3	O-acyl	Cl	S	Uracil	Cl	OH
CH_3	O-acyl	Cl	S	Guanine	Cl	OH
CH_3	O-acyl	Cl	S	Cytosine	Cl	OH
CH_3	O-acyl	Cl	S	Adenine	Cl	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	Thymine	H	H
CH_3	O-acyl	Cl	S	Uracil	H	H
CH_3	O-acyl	Cl	S	Guanine	H	H
CH_3	O-acyl	Cl	S	Cytosine	H	H
CH_3	O-acyl	Cl	S	Adenine	H	H
CH_3	O-acyl	Cl	S	Hypoxanthine	H	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Cl	S	Thymine	H	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	H	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	H	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	H	O-acyl
CH_3	O-acyl	Cl	S	Uracil	H	O-acyl
CH_3	O-acyl	Cl	S	Guanine	H	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	H	O-acyl
CH_3	O-acyl	Cl	S	Adenine	H	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	Thymine	H	OH
CH_3	O-acyl	Cl	S	Uracil	H	OH
CH_3	O-acyl	Cl	S	Guanine	H	OH
CH_3	O-acyl	Cl	S	Cytosine	H	OH
CH_3	O-acyl	Cl	S	Adenine	H	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	H	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	Thymine	OH	H
CH_3	O-acyl	Cl	S	Uracil	OH	H
CH_3	O-acyl	Cl	S	Guanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	Cytosine	OH	H
CH_3	O-acyl	Cl	S	Adenine	OH	H
CH_3	O-acyl	Cl	S	Hypoxanthine	OH	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	OH	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	OH	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	H	S	Thymine	F	H
CH_3	O-acyl	H	S	Uracil	F	H
CH_3	O-acyl	H	S	Guanine	F	H
CH_3	O-acyl	H	S	Cytosine	F	H
CH_3	O-acyl	H	S	Adenine	F	H
CH_3	O-acyl	H	S	Hypoxanthine	F	H
CH_3	O-acyl	H	S	5-Fluorouracil	F	H
CH_3	O-acyl	H	S	8-Fluoroguanine	F	H
CH_3	O-acyl	H	S	5-Fluorocytosine	F	H
CH_3	O-acyl	H	S	8-Fluoroadenine	F	H
CH_3	O-acyl	H	S	2-Fluoroadenine	F	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	H	S	2-Aminoadenine	F	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	H	S	2-N-acetylguanine	F	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	H	S	6-N-acetyladenine	F	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	H	S	Thymine	F	O-amino acid
CH_3	O-acyl	H	S	Uracil	F	O-amino acid
CH_3	O-acyl	H	S	Guanine	F	O-amino acid
CH_3	O-acyl	H	S	Cytosine	F	O-amino acid
CH_3	O-acyl	H	S	Adenine	F	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	Thymine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	Uracil	F	O-acyl
CH_3	O-acyl	H	S	Guanine	F	O-acyl
CH_3	O-acyl	H	S	Cytosine	F	O-acyl
CH_3	O-acyl	H	S	Adenine	F	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	Thymine	F	OH
CH_3	O-acyl	H	S	Uracil	F	OH
CH_3	O-acyl	H	S	Guanine	F	OH
CH_3	O-acyl	H	S	Cytosine	F	OH
CH_3	O-acyl	H	S	Adenine	F	OH
CH_3	O-acyl	H	S	Hypoxanthine	F	OH
CH_3	O-acyl	H	S	5-Fluorouracil	F	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	H	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-Aminoadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	H	S	Thymine	Br	H
CH_3	O-acyl	H	S	Uracil	Br	H
CH_3	O-acyl	H	S	Guanine	Br	H
CH_3	O-acyl	H	S	Cytosine	Br	H
CH_3	O-acyl	H	S	Adenine	Br	H
CH_3	O-acyl	H	S	Hypoxanthine	Br	H
CH_3	O-acyl	H	S	5-Fluorouracil	Br	H
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	2-Aminoadenine	Br	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	H	S	Thymine	Br	O-amino acid
CH_3	O-acyl	H	S	Uracil	Br	O-amino acid
CH_3	O-acyl	H	S	Guanine	Br	O-amino acid
CH_3	O-acyl	H	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	H	S	Adenine	Br	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	Thymine	Br	O-acyl
CH_3	O-acyl	H	S	Uracil	Br	O-acyl
CH_3	O-acyl	H	S	Guanine	Br	O-acyl
CH_3	O-acyl	H	S	Cytosine	Br	O-acyl
CH_3	O-acyl	H	S	Adenine	Br	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	Thymine	Br	OH
CH_3	O-acyl	H	S	Uracil	Br	OH
CH_3	O-acyl	H	S	Guanine	Br	OH
CH_3	O-acyl	H	S	Cytosine	Br	OH
CH_3	O-acyl	H	S	Adenine	Br	OH
CH_3	O-acyl	H	S	Hypoxanthine	Br	OH
CH_3	O-acyl	H	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	H	S	Thymine	Cl	H
CH_3	O-acyl	H	S	Uracil	Cl	H
CH_3	O-acyl	H	S	Guanine	Cl	H
CH_3	O-acyl	H	S	Cytosine	Cl	H
CH_3	O-acyl	H	S	Adenine	Cl	H
CH_3	O-acyl	H	S	Hypoxanthine	Cl	H
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	H	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	H	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	H	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	H	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	Thymine	Cl	O-acyl
CH_3	O-acyl	H	S	Uracil	Cl	O-acyl
CH_3	O-acyl	H	S	Guanine	Cl	O-acyl
CH_3	O-acyl	H	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	H	S	Adenine	Cl	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	Thymine	Cl	OH
CH_3	O-acyl	H	S	Uracil	Cl	OH
CH_3	O-acyl	H	S	Guanine	Cl	OH
CH_3	O-acyl	H	S	Cytosine	Cl	OH
CH_3	O-acyl	H	S	Adenine	Cl	OH
CH_3	O-acyl	H	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	Thymine	H	H
CH_3	O-acyl	H	S	Uracil	H	H
CH_3	O-acyl	H	S	Guanine	H	H
CH_3	O-acyl	H	S	Cytosine	H	H
CH_3	O-acyl	H	S	Adenine	H	H
CH_3	O-acyl	H	S	Hypoxanthine	H	H
CH_3	O-acyl	H	S	5-Fluorouracil	H	H
CH_3	O-acyl	H	S	8-Fluoroguanine	H	H
CH_3	O-acyl	H	S	5-Fluorocytosine	H	H
CH_3	O-acyl	H	S	8-Fluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Fluoroadenine	H	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2-Aminoadenine	H	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	H	S	2-N-acetylguanine	H	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	H	S	6-N-acetyladenine	H	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	H	S	Thymine	H	O-amino acid
CH_3	O-acyl	H	S	Uracil	H	O-amino acid
CH_3	O-acyl	H	S	Guanine	H	O-amino acid
CH_3	O-acyl	H	S	Cytosine	H	O-amino acid
CH_3	O-acyl	H	S	Adenine	H	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	Thymine	H	O-acyl
CH_3	O-acyl	H	S	Uracil	H	O-acyl
CH_3	O-acyl	H	S	Guanine	H	O-acyl
CH_3	O-acyl	H	S	Cytosine	H	O-acyl
CH_3	O-acyl	H	S	Adenine	H	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	Thymine	H	OH
CH_3	O-acyl	H	S	Uracil	H	OH
CH_3	O-acyl	H	S	Guanine	H	OH
CH_3	O-acyl	H	S	Cytosine	H	OH
CH_3	O-acyl	H	S	Adenine	H	OH
CH_3	O-acyl	H	S	Hypoxanthine	H	OH
CH_3	O-acyl	H	S	5-Fluorouracil	H	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-Aminoadenine	H	OH
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	H	S	Thymine	OH	H
CH_3	O-acyl	H	S	Uracil	OH	H
CH_3	O-acyl	H	S	Guanine	OH	H
CH_3	O-acyl	H	S	Cytosine	OH	H
CH_3	O-acyl	H	S	Adenine	OH	H
CH_3	O-acyl	H	S	Hypoxanthine	OH	H
CH_3	O-acyl	H	S	5-Fluorouracil	OH	H
CH_3	O-acyl	H	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	H	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	H	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-Aminoadenine	OH	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	H	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	F	S	Thymine	F	H
CH_3	O-amino acid	F	S	Uracil	F	H
CH_3	O-amino acid	F	S	Guanine	F	H
CH_3	O-amino acid	F	S	Cytosine	F	H
CH_3	O-amino acid	F	S	Adenine	F	H
CH_3	O-amino acid	F	S	Hypoxanthine	F	H
CH_3	O-amino acid	F	S	5-Fluorouracil	F	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-Aminoadenine	F	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	F	S	Thymine	F	O-amino acid
CH_3	O-amino acid	F	S	Uracil	F	O-amino acid
CH_3	O-amino acid	F	S	Guanine	F	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	F	S	Adenine	F	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	Thymine	F	O-acyl
CH_3	O-amino acid	F	S	Uracil	F	O-acyl
CH_3	O-amino acid	F	S	Guanine	F	O-acyl
CH_3	O-amino acid	F	S	Cytosine	F	O-acyl
CH_3	O-amino acid	F	S	Adenine	F	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	Thymine	F	OH
CH_3	O-amino acid	F	S	Uracil	F	OH
CH_3	O-amino acid	F	S	Guanine	F	OH
CH_3	O-amino acid	F	S	Cytosine	F	OH
CH_3	O-amino acid	F	S	Adenine	F	OH
CH_3	O-amino acid	F	S	Hypoxanthine	F	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	F	S	Thymine	Br	H
CH_3	O-amino acid	F	S	Uracil	Br	H
CH_3	O-amino acid	F	S	Guanine	Br	H
CH_3	O-amino acid	F	S	Cytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	Adenine	Br	H
CH_3	O-amino acid	F	S	Hypoxanthine	Br	H
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	F	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	F	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	F	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	Thymine	Br	O-acyl
CH_3	O-amino acid	F	S	Uracil	Br	O-acyl
CH_3	O-amino acid	F	S	Guanine	Br	O-acyl
CH_3	O-amino acid	F	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	F	S	Adenine	Br	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	Thymine	Br	OH
CH_3	O-amino acid	F	S	Uracil	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	Guanine	Br	OH
CH_3	O-amino acid	F	S	Cytosine	Br	OH
CH_3	O-amino acid	F	S	Adenine	Br	OH
CH_3	O-amino acid	F	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	Thymine	Cl	H
CH_3	O-amino acid	F	S	Uracil	Cl	H
CH_3	O-amino acid	F	S	Guanine	Cl	H
CH_3	O-amino acid	F	S	Cytosine	Cl	H
CH_3	O-amino acid	F	S	Adenine	Cl	H
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	F	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	F	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	F	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	F	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	Thymine	Cl	OH
CH_3	O-amino acid	F	S	Uracil	Cl	OH
CH_3	O-amino acid	F	S	Guanine	Cl	OH
CH_3	O-amino acid	F	S	Cytosine	Cl	OH
CH_3	O-amino acid	F	S	Adenine	Cl	OH
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	Thymine	H	H
CH_3	O-amino acid	F	S	Uracil	H	H
CH_3	O-amino acid	F	S	Guanine	H	H
CH_3	O-amino acid	F	S	Cytosine	H	H
CH_3	O-amino acid	F	S	Adenine	H	H
CH_3	O-amino acid	F	S	Hypoxanthine	H	H
CH_3	O-amino acid	F	S	5-Fluorouracil	H	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-Aminoadenine	H	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	F	S	Thymine	H	O-amino acid
CH_3	O-amino acid	F	S	Uracil	H	O-amino acid
CH_3	O-amino acid	F	S	Guanine	H	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	F	S	Adenine	H	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	Thymine	H	O-acyl
CH_3	O-amino acid	F	S	Uracil	H	O-acyl
CH_3	O-amino acid	F	S	Guanine	H	O-acyl
CH_3	O-amino acid	F	S	Cytosine	H	O-acyl
CH_3	O-amino acid	F	S	Adenine	H	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	Thymine	H	OH
CH_3	O-amino acid	F	S	Uracil	H	OH
CH_3	O-amino acid	F	S	Guanine	H	OH
CH_3	O-amino acid	F	S	Cytosine	H	OH
CH_3	O-amino acid	F	S	Adenine	H	OH
CH_3	O-amino acid	F	S	Hypoxanthine	H	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	F	S	Thymine	OH	H
CH_3	O-amino acid	F	S	Uracil	OH	H
CH_3	O-amino acid	F	S	Guanine	OH	H
CH_3	O-amino acid	F	S	Cytosine	OH	H
CH_3	O-amino acid	F	S	Adenine	OH	H
CH_3	O-amino acid	F	S	Hypoxanthine	OH	H
CH_3	O-amino acid	F	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	Thymine	F	H
CH_3	O-amino acid	Br	S	Uracil	F	H
CH_3	O-amino acid	Br	S	Guanine	F	H
CH_3	O-amino acid	Br	S	Cytosine	F	H
CH_3	O-amino acid	Br	S	Adenine	F	H
CH_3	O-amino acid	Br	S	Hypoxanthine	F	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Br	S	Thymine	F	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	F	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	F	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	F	O-amino acid
CH_3	O-amino acid	Br	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	F	O-acyl
CH_3	O-amino acid	Br	S	Uracil	F	O-acyl
CH_3	O-amino acid	Br	S	Guanine	F	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	F	O-acyl
CH_3	O-amino acid	Br	S	Adenine	F	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	Thymine	F	OH
CH_3	O-amino acid	Br	S	Uracil	F	OH
CH_3	O-amino acid	Br	S	Guanine	F	OH
CH_3	O-amino acid	Br	S	Cytosine	F	OH
CH_3	O-amino acid	Br	S	Adenine	F	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	F	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	Thymine	Br	H
CH_3	O-amino acid	Br	S	Uracil	Br	H
CH_3	O-amino acid	Br	S	Guanine	Br	H
CH_3	O-amino acid	Br	S	Cytosine	Br	H
CH_3	O-amino acid	Br	S	Adenine	Br	H
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	Br	O-acyl
CH_3	O-amino acid	Br	S	Uracil	Br	O-acyl
CH_3	O-amino acid	Br	S	Guanine	Br	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	Adenine	Br	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	Thymine	Br	OH
CH_3	O-amino acid	Br	S	Uracil	Br	OH
CH_3	O-amino acid	Br	S	Guanine	Br	OH
CH_3	O-amino acid	Br	S	Cytosine	Br	OH
CH_3	O-amino acid	Br	S	Adenine	Br	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	Thymine	Cl	H
CH_3	O-amino acid	Br	S	Uracil	Cl	H
CH_3	O-amino acid	Br	S	Guanine	Cl	H
CH_3	O-amino acid	Br	S	Cytosine	Cl	H
CH_3	O-amino acid	Br	S	Adenine	Cl	H
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	Br	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Thymine	Cl	OH
CH_3	O-amino acid	Br	S	Uracil	Cl	OH
CH_3	O-amino acid	Br	S	Guanine	Cl	OH
CH_3	O-amino acid	Br	S	Cytosine	Cl	OH
CH_3	O-amino acid	Br	S	Adenine	Cl	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	Thymine	H	H
CH_3	O-amino acid	Br	S	Uracil	H	H
CH_3	O-amino acid	Br	S	Guanine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	Cytosine	H	H
CH_3	O-amino acid	Br	S	Adenine	H	H
CH_3	O-amino acid	Br	S	Hypoxanthine	H	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Br	S	Thymine	H	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	H	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	H	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	H	O-amino acid
CH_3	O-amino acid	Br	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	H	O-acyl
CH_3	O-amino acid	Br	S	Uracil	H	O-acyl
CH_3	O-amino acid	Br	S	Guanine	H	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	H	O-acyl
CH_3	O-amino acid	Br	S	Adenine	H	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	Thymine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	Uracil	H	OH
CH_3	O-amino acid	Br	S	Guanine	H	OH
CH_3	O-amino acid	Br	S	Cytosine	H	OH
CH_3	O-amino acid	Br	S	Adenine	H	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	H	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	Thymine	OH	H
CH_3	O-amino acid	Br	S	Uracil	OH	H
CH_3	O-amino acid	Br	S	Guanine	OH	H
CH_3	O-amino acid	Br	S	Cytosine	OH	H
CH_3	O-amino acid	Br	S	Adenine	OH	H
CH_3	O-amino acid	Br	S	Hypoxanthine	OH	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	Thymine	F	H
CH_3	O-amino acid	Cl	S	Uracil	F	H
CH_3	O-amino acid	Cl	S	Guanine	F	H
CH_3	O-amino acid	Cl	S	Cytosine	F	H
CH_3	O-amino acid	Cl	S	Adenine	F	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	Thymine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	F	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	F	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	F	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	F	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	F	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	F	OH
CH_3	O-amino acid	Cl	S	Uracil	F	OH
CH_3	O-amino acid	Cl	S	Guanine	F	OH
CH_3	O-amino acid	Cl	S	Cytosine	F	OH
CH_3	O-amino acid	Cl	S	Adenine	F	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	Thymine	Br	H
CH_3	O-amino acid	Cl	S	Uracil	Br	H
CH_3	O-amino acid	Cl	S	Guanine	Br	H
CH_3	O-amino acid	Cl	S	Cytosine	Br	H
CH_3	O-amino acid	Cl	S	Adenine	Br	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	Br	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	Br	OH
CH_3	O-amino acid	Cl	S	Uracil	Br	OH
CH_3	O-amino acid	Cl	S	Guanine	Br	OH
CH_3	O-amino acid	Cl	S	Cytosine	Br	OH
CH_3	O-amino acid	Cl	S	Adenine	Br	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	Thymine	Cl	H
CH_3	O-amino acid	Cl	S	Uracil	Cl	H
CH_3	O-amino acid	Cl	S	Guanine	Cl	H
CH_3	O-amino acid	Cl	S	Cytosine	Cl	H
CH_3	O-amino acid	Cl	S	Adenine	Cl	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	Cl	OH
CH_3	O-amino acid	Cl	S	Uracil	Cl	OH
CH_3	O-amino acid	Cl	S	Guanine	Cl	OH
CH_3	O-amino acid	Cl	S	Cytosine	Cl	OH
CH_3	O-amino acid	Cl	S	Adenine	Cl	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	Thymine	H	H
CH_3	O-amino acid	Cl	S	Uracil	H	H
CH_3	O-amino acid	Cl	S	Guanine	H	H
CH_3	O-amino acid	Cl	S	Cytosine	H	H
CH_3	O-amino acid	Cl	S	Adenine	H	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	Thymine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	H	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	H	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	H	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	H	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	H	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	H	OH
CH_3	O-amino acid	Cl	S	Uracil	H	OH
CH_3	O-amino acid	Cl	S	Guanine	H	OH
CH_3	O-amino acid	Cl	S	Cytosine	H	OH
CH_3	O-amino acid	Cl	S	Adenine	H	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	Thymine	OH	H
CH_3	O-amino acid	Cl	S	Uracil	OH	H
CH_3	O-amino acid	Cl	S	Guanine	OH	H
CH_3	O-amino acid	Cl	S	Cytosine	OH	H
CH_3	O-amino acid	Cl	S	Adenine	OH	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	H	S	Thymine	F	H
CH_3	O-amino acid	H	S	Uracil	F	H
CH_3	O-amino acid	H	S	Guanine	F	H
CH_3	O-amino acid	H	S	Cytosine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	Adenine	F	H
CH_3	O-amino acid	H	S	Hypoxanthine	F	H
CH_3	O-amino acid	H	S	5-Fluorouracil	F	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-Aminoadenine	F	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	H	S	Thymine	F	O-amino acid
CH_3	O-amino acid	H	S	Uracil	F	O-amino acid
CH_3	O-amino acid	H	S	Guanine	F	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	H	S	Adenine	F	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	Thymine	F	O-acyl
CH_3	O-amino acid	H	S	Uracil	F	O-acyl
CH_3	O-amino acid	H	S	Guanine	F	O-acyl
CH_3	O-amino acid	H	S	Cytosine	F	O-acyl
CH_3	O-amino acid	H	S	Adenine	F	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	Thymine	F	OH
CH_3	O-amino acid	H	S	Uracil	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	Guanine	F	OH
CH_3	O-amino acid	H	S	Cytosine	F	OH
CH_3	O-amino acid	H	S	Adenine	F	OH
CH_3	O-amino acid	H	S	Hypoxanthine	F	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	H	S	Thymine	Br	H
CH_3	O-amino acid	H	S	Uracil	Br	H
CH_3	O-amino acid	H	S	Guanine	Br	H
CH_3	O-amino acid	H	S	Cytosine	Br	H
CH_3	O-amino acid	H	S	Adenine	Br	H
CH_3	O-amino acid	H	S	Hypoxanthine	Br	H
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	H	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	H	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	H	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	Thymine	Br	O-acyl
CH_3	O-amino acid	H	S	Uracil	Br	O-acyl
CH_3	O-amino acid	H	S	Guanine	Br	O-acyl
CH_3	O-amino acid	H	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	H	S	Adenine	Br	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	Thymine	Br	OH
CH_3	O-amino acid	H	S	Uracil	Br	OH
CH_3	O-amino acid	H	S	Guanine	Br	OH
CH_3	O-amino acid	H	S	Cytosine	Br	OH
CH_3	O-amino acid	H	S	Adenine	Br	OH
CH_3	O-amino acid	H	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	Thymine	Cl	H
CH_3	O-amino acid	H	S	Uracil	Cl	H
CH_3	O-amino acid	H	S	Guanine	Cl	H
CH_3	O-amino acid	H	S	Cytosine	Cl	H
CH_3	O-amino acid	H	S	Adenine	Cl	H
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	H	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	H	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	H	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	H	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	Thymine	Cl	OH
CH_3	O-amino acid	H	S	Uracil	Cl	OH
CH_3	O-amino acid	H	S	Guanine	Cl	OH
CH_3	O-amino acid	H	S	Cytosine	Cl	OH
CH_3	O-amino acid	H	S	Adenine	Cl	OH
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	Thymine	H	H
CH_3	O-amino acid	H	S	Uracil	H	H
CH_3	O-amino acid	H	S	Guanine	H	H
CH_3	O-amino acid	H	S	Cytosine	H	H
CH_3	O-amino acid	H	S	Adenine	H	H
CH_3	O-amino acid	H	S	Hypoxanthine	H	H
CH_3	O-amino acid	H	S	5-Fluorouracil	H	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-Aminoadenine	H	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	H	S	Thymine	H	O-amino acid
CH_3	O-amino acid	H	S	Uracil	H	O-amino acid
CH_3	O-amino acid	H	S	Guanine	H	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	H	S	Adenine	H	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	Thymine	H	O-acyl
CH_3	O-amino acid	H	S	Uracil	H	O-acyl
CH_3	O-amino acid	H	S	Guanine	H	O-acyl
CH_3	O-amino acid	H	S	Cytosine	H	O-acyl
CH_3	O-amino acid	H	S	Adenine	H	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	Thymine	H	OH
CH_3	O-amino acid	H	S	Uracil	H	OH
CH_3	O-amino acid	H	S	Guanine	H	OH
CH_3	O-amino acid	H	S	Cytosine	H	OH
CH_3	O-amino acid	H	S	Adenine	H	OH
CH_3	O-amino acid	H	S	Hypoxanthine	H	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	H	S	Thymine	OH	H
CH_3	O-amino acid	H	S	Uracil	OH	H
CH_3	O-amino acid	H	S	Guanine	OH	H
CH_3	O-amino acid	H	S	Cytosine	OH	H
CH_3	O-amino acid	H	S	Adenine	OH	H
CH_3	O-amino acid	H	S	Hypoxanthine	OH	H
CH_3	O-amino acid	H	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	OH	F	S	Thymine	F	O-amino acid
CH_3	OH	F	S	Uracil	F	O-amino acid
CH_3	OH	F	S	Guanine	F	O-amino acid
CH_3	OH	F	S	Cytosine	F	O-amino acid
CH_3	OH	F	S	Adenine	F	O-amino acid
CH_3	OH	F	S	Hypoxanthine	F	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	F	S	Thymine	F	O-acyl
CH_3	OH	F	S	Uracil	F	O-acyl
CH_3	OH	F	S	Guanine	F	O-acyl
CH_3	OH	F	S	Cytosine	F	O-acyl
CH_3	OH	F	S	Adenine	F	O-acyl
CH_3	OH	F	S	Hypoxanthine	F	O-acyl
CH_3	OH	F	S	5-Fluorouracil	F	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-Aminoadenine	F	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	F	S	Thymine	Br	O-amino acid
CH_3	OH	F	S	Uracil	Br	O-amino acid
CH_3	OH	F	S	Guanine	Br	O-amino acid
CH_3	OH	F	S	Cytosine	Br	O-amino acid
CH_3	OH	F	S	Adenine	Br	O-amino acid
CH_3	OH	F	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	Thymine	Br	O-acyl
CH_3	OH	F	S	Uracil	Br	O-acyl
CH_3	OH	F	S	Guanine	Br	O-acyl
CH_3	OH	F	S	Cytosine	Br	O-acyl
CH_3	OH	F	S	Adenine	Br	O-acyl
CH_3	OH	F	S	Hypoxanthine	Br	O-acyl
CH_3	OH	F	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	F	S	Thymine	Cl	O-amino acid
CH_3	OH	F	S	Uracil	Cl	O-amino acid
CH_3	OH	F	S	Guanine	Cl	O-amino acid
CH_3	OH	F	S	Cytosine	Cl	O-amino acid
CH_3	OH	F	S	Adenine	Cl	O-amino acid
CH_3	OH	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	Thymine	Cl	O-acyl
CH_3	OH	F	S	Uracil	Cl	O-acyl
CH_3	OH	F	S	Guanine	Cl	O-acyl
CH_3	OH	F	S	Cytosine	Cl	O-acyl
CH_3	OH	F	S	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	Thymine	H	O-amino acid
CH_3	OH	F	S	Uracil	H	O-amino acid
CH_3	OH	F	S	Guanine	H	O-amino acid
CH_3	OH	F	S	Cytosine	H	O-amino acid
CH_3	OH	F	S	Adenine	H	O-amino acid
CH_3	OH	F	S	Hypoxanthine	H	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	F	S	Thymine	H	O-acyl
CH_3	OH	F	S	Uracil	H	O-acyl
CH_3	OH	F	S	Guanine	H	O-acyl
CH_3	OH	F	S	Cytosine	H	O-acyl
CH_3	OH	F	S	Adenine	H	O-acyl
CH_3	OH	F	S	Hypoxanthine	H	O-acyl
CH_3	OH	F	S	5-Fluorouracil	H	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-Aminoadenine	H	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Br	S	Thymine	F	O-amino acid
CH_3	OH	Br	S	Uracil	F	O-amino acid
CH_3	OH	Br	S	Guanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	Cytosine	F	O-amino acid
CH_3	OH	Br	S	Adenine	F	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	F	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	Thymine	F	O-acyl
CH_3	OH	Br	S	Uracil	F	O-acyl
CH_3	OH	Br	S	Guanine	F	O-acyl
CH_3	OH	Br	S	Cytosine	F	O-acyl
CH_3	OH	Br	S	Adenine	F	O-acyl
CH_3	OH	Br	S	Hypoxanthine	F	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	F	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	F	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Br	S	Thymine	Br	O-amino acid
CH_3	OH	Br	S	Uracil	Br	O-amino acid
CH_3	OH	Br	S	Guanine	Br	O-amino acid
CH_3	OH	Br	S	Cytosine	Br	O-amino acid
CH_3	OH	Br	S	Adenine	Br	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	Thymine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	Uracil	Br	O-acyl
CH_3	OH	Br	S	Guanine	Br	O-acyl
CH_3	OH	Br	S	Cytosine	Br	O-acyl
CH_3	OH	Br	S	Adenine	Br	O-acyl
CH_3	OH	Br	S	Hypoxanthine	Br	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	Thymine	Cl	O-amino acid
CH_3	OH	Br	S	Uracil	Cl	O-amino acid
CH_3	OH	Br	S	Guanine	Cl	O-amino acid
CH_3	OH	Br	S	Cytosine	Cl	O-amino acid
CH_3	OH	Br	S	Adenine	Cl	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	Thymine	Cl	O-acyl
CH_3	OH	Br	S	Uracil	Cl	O-acyl
CH_3	OH	Br	S	Guanine	Cl	O-acyl
CH_3	OH	Br	S	Cytosine	Cl	O-acyl
CH_3	OH	Br	S	Adenine	Cl	O-acyl
CH_3	OH	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	Thymine	H	O-amino acid
CH_3	OH	Br	S	Uracil	H	O-amino acid
CH_3	OH	Br	S	Guanine	H	O-amino acid
CH_3	OH	Br	S	Cytosine	H	O-amino acid
CH_3	OH	Br	S	Adenine	H	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	H	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	Thymine	H	O-acyl
CH_3	OH	Br	S	Uracil	H	O-acyl
CH_3	OH	Br	S	Guanine	H	O-acyl
CH_3	OH	Br	S	Cytosine	H	O-acyl
CH_3	OH	Br	S	Adenine	H	O-acyl
CH_3	OH	Br	S	Hypoxanthine	H	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	H	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	H	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	Thymine	F	O-amino acid
CH_3	OH	Cl	S	Uracil	F	O-amino acid
CH_3	OH	Cl	S	Guanine	F	O-amino acid
CH_3	OH	Cl	S	Cytosine	F	O-amino acid
CH_3	OH	Cl	S	Adenine	F	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	Thymine	F	O-acyl
CH_3	OH	Cl	S	Uracil	F	O-acyl
CH_3	OH	Cl	S	Guanine	F	O-acyl
CH_3	OH	Cl	S	Cytosine	F	O-acyl
CH_3	OH	Cl	S	Adenine	F	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	F	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	F	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	Thymine	Br	O-amino acid
CH_3	OH	Cl	S	Uracil	Br	O-amino acid
CH_3	OH	Cl	S	Guanine	Br	O-amino acid
CH_3	OH	Cl	S	Cytosine	Br	O-amino acid
CH_3	OH	Cl	S	Adenine	Br	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	Thymine	Br	O-acyl
CH_3	OH	Cl	S	Uracil	Br	O-acyl
CH_3	OH	Cl	S	Guanine	Br	O-acyl
CH_3	OH	Cl	S	Cytosine	Br	O-acyl
CH_3	OH	Cl	S	Adenine	Br	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	Thymine	Cl	O-amino acid
CH_3	OH	Cl	S	Uracil	Cl	O-amino acid
CH_3	OH	Cl	S	Guanine	Cl	O-amino acid
CH_3	OH	Cl	S	Cytosine	Cl	O-amino acid
CH_3	OH	Cl	S	Adenine	Cl	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	Thymine	Cl	O-acyl
CH_3	OH	Cl	S	Uracil	Cl	O-acyl
CH_3	OH	Cl	S	Guanine	Cl	O-acyl
CH_3	OH	Cl	S	Cytosine	Cl	O-acyl
CH_3	OH	Cl	S	Adenine	Cl	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	Thymine	H	O-amino acid
CH_3	OH	Cl	S	Uracil	H	O-amino acid
CH_3	OH	Cl	S	Guanine	H	O-amino acid
CH_3	OH	Cl	S	Cytosine	H	O-amino acid
CH_3	OH	Cl	S	Adenine	H	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	Thymine	H	O-acyl
CH_3	OH	Cl	S	Uracil	H	O-acyl
CH_3	OH	Cl	S	Guanine	H	O-acyl
CH_3	OH	Cl	S	Cytosine	H	O-acyl
CH_3	OH	Cl	S	Adenine	H	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	H	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	H	S	Thymine	F	O-amino acid
CH_3	OH	H	S	Uracil	F	O-amino acid
CH_3	OH	H	S	Guanine	F	O-amino acid
CH_3	OH	H	S	Cytosine	F	O-amino acid
CH_3	OH	H	S	Adenine	F	O-amino acid
CH_3	OH	H	S	Hypoxanthine	F	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	H	S	Thymine	F	O-acyl
CH_3	OH	H	S	Uracil	F	O-acyl
CH_3	OH	H	S	Guanine	F	O-acyl
CH_3	OH	H	S	Cytosine	F	O-acyl
CH_3	OH	H	S	Adenine	F	O-acyl
CH_3	OH	H	S	Hypoxanthine	F	O-acyl
CH_3	OH	H	S	5-Fluorouracil	F	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-Aminoadenine	F	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	H	S	Thymine	Br	O-amino acid
CH_3	OH	H	S	Uracil	Br	O-amino acid
CH_3	OH	H	S	Guanine	Br	O-amino acid
CH_3	OH	H	S	Cytosine	Br	O-amino acid
CH_3	OH	H	S	Adenine	Br	O-amino acid
CH_3	OH	H	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	Thymine	Br	O-acyl
CH_3	OH	H	S	Uracil	Br	O-acyl
CH_3	OH	H	S	Guanine	Br	O-acyl
CH_3	OH	H	S	Cytosine	Br	O-acyl
CH_3	OH	H	S	Adenine	Br	O-acyl
CH_3	OH	H	S	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	H	S	Thymine	Cl	O-amino acid
CH_3	OH	H	S	Uracil	Cl	O-amino acid
CH_3	OH	H	S	Guanine	Cl	O-amino acid
CH_3	OH	H	S	Cytosine	Cl	O-amino acid
CH_3	OH	H	S	Adenine	Cl	O-amino acid
CH_3	OH	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	Thymine	Cl	O-acyl
CH_3	OH	H	S	Uracil	Cl	O-acyl
CH_3	OH	H	S	Guanine	Cl	O-acyl
CH_3	OH	H	S	Cytosine	Cl	O-acyl
CH_3	OH	H	S	Adenine	Cl	O-acyl
CH_3	OH	H	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	Thymine	H	O-amino acid
CH_3	OH	H	S	Uracil	H	O-amino acid
CH_3	OH	H	S	Guanine	H	O-amino acid
CH_3	OH	H	S	Cytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	Adenine	H	O-amino acid
CH_3	OH	H	S	Hypoxanthine	H	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	H	S	Thymine	H	O-acyl
CH_3	OH	H	S	Uracil	H	O-acyl
CH_3	OH	H	S	Guanine	H	O-acyl
CH_3	OH	H	S	Cytosine	H	O-acyl
CH_3	OH	H	S	Adenine	H	O-acyl
CH_3	OH	H	S	Hypoxanthine	H	O-acyl
CH_3	OH	H	S	5-Fluorouracil	H	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2-Aminoadenine	H	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	F	S	Thymine	F	O-amino acid
CH_3	H	F	S	Uracil	F	O-amino acid
CH_3	H	F	S	Guanine	F	O-amino acid
CH_3	H	F	S	Cytosine	F	O-amino acid
CH_3	H	F	S	Adenine	F	O-amino acid
CH_3	H	F	S	Hypoxanthine	F	O-amino acid
CH_3	H	F	S	5-Fluorouracil	F	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-Aminoadenine	F	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	F	S	Thymine	F	O-acyl
CH_3	H	F	S	Uracil	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	Guanine	F	O-acyl
CH_3	H	F	S	Cytosine	F	O-acyl
CH_3	H	F	S	Adenine	F	O-acyl
CH_3	H	F	S	Hypoxanthine	F	O-acyl
CH_3	H	F	S	5-Fluorouracil	F	O-acyl
CH_3	H	F	S	8-Fluoroguanine	F	O-acyl
CH_3	H	F	S	5-Fluorocytosine	F	O-acyl
CH_3	H	F	S	8-Fluoroadenine	F	O-acyl
CH_3	H	F	S	2-Fluoroadenine	F	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2-Aminoadenine	F	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	F	S	2-N-acetylguanine	F	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	F	S	6-N-acetyladenine	F	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	F	S	Thymine	Br	O-amino acid
CH_3	H	F	S	Uracil	Br	O-amino acid
CH_3	H	F	S	Guanine	Br	O-amino acid
CH_3	H	F	S	Cytosine	Br	O-amino acid
CH_3	H	F	S	Adenine	Br	O-amino acid
CH_3	H	F	S	Hypoxanthine	Br	O-amino acid
CH_3	H	F	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	F	S	Thymine	Br	O-acyl
CH_3	H	F	S	Uracil	Br	O-acyl
CH_3	H	F	S	Guanine	Br	O-acyl
CH_3	H	F	S	Cytosine	Br	O-acyl
CH_3	H	F	S	Adenine	Br	O-acyl
CH_3	H	F	S	Hypoxanthine	Br	O-acyl
CH_3	H	F	S	5-Fluorouracil	Br	O-acyl
CH_3	H	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-Aminoadenine	Br	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	F	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	Thymine	Cl	O-amino acid
CH_3	H	F	S	Uracil	Cl	O-amino acid
CH_3	H	F	S	Guanine	Cl	O-amino acid
CH_3	H	F	S	Cytosine	Cl	O-amino acid
CH_3	H	F	S	Adenine	Cl	O-amino acid
CH_3	H	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	Thymine	Cl	O-acyl
CH_3	H	F	S	Uracil	Cl	O-acyl
CH_3	H	F	S	Guanine	Cl	O-acyl
CH_3	H	F	S	Cytosine	Cl	O-acyl
CH_3	H	F	S	Adenine	Cl	O-acyl
CH_3	H	F	S	Hypoxanthine	Cl	O-acyl
CH_3	H	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	F	S	Thymine	H	O-amino acid
CH_3	H	F	S	Uracil	H	O-amino acid
CH_3	H	F	S	Guanine	H	O-amino acid
CH_3	H	F	S	Cytosine	H	O-amino acid
CH_3	H	F	S	Adenine	H	O-amino acid
CH_3	H	F	S	Hypoxanthine	H	O-amino acid
CH_3	H	F	S	5-Fluorouracil	H	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-Aminoadenine	H	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	F	S	Thymine	H	O-acyl
CH_3	H	F	S	Uracil	H	O-acyl
CH_3	H	F	S	Guanine	H	O-acyl
CH_3	H	F	S	Cytosine	H	O-acyl
CH_3	H	F	S	Adenine	H	O-acyl
CH_3	H	F	S	Hypoxanthine	H	O-acyl
CH_3	H	F	S	5-Fluorouracil	H	O-acyl
CH_3	H	F	S	8-Fluoroguanine	H	O-acyl
CH_3	H	F	S	5-Fluorocytosine	H	O-acyl
CH_3	H	F	S	8-Fluoroadenine	H	O-acyl
CH_3	H	F	S	2-Fluoroadenine	H	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2-Aminoadenine	H	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	F	S	2-N-acetylguanine	H	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	F	S	6-N-acetyladenine	H	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Br	S	Thymine	F	O-amino acid
CH_3	H	Br	S	Uracil	F	O-amino acid
CH_3	H	Br	S	Guanine	F	O-amino acid
CH_3	H	Br	S	Cytosine	F	O-amino acid
CH_3	H	Br	S	Adenine	F	O-amino acid
CH_3	H	Br	S	Hypoxanthine	F	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Br	S	Thymine	F	O-acyl
CH_3	H	Br	S	Uracil	F	O-acyl
CH_3	H	Br	S	Guanine	F	O-acyl
CH_3	H	Br	S	Cytosine	F	O-acyl
CH_3	H	Br	S	Adenine	F	O-acyl
CH_3	H	Br	S	Hypoxanthine	F	O-acyl
CH_3	H	Br	S	5-Fluorouracil	F	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	F	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	H	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-Aminoadenine	F	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Br	S	Thymine	Br	O-amino acid
CH_3	H	Br	S	Uracil	Br	O-amino acid
CH_3	H	Br	S	Guanine	Br	O-amino acid
CH_3	H	Br	S	Cytosine	Br	O-amino acid
CH_3	H	Br	S	Adenine	Br	O-amino acid
CH_3	H	Br	S	Hypoxanthine	Br	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	Thymine	Br	O-acyl
CH_3	H	Br	S	Uracil	Br	O-acyl
CH_3	H	Br	S	Guanine	Br	O-acyl
CH_3	H	Br	S	Cytosine	Br	O-acyl
CH_3	H	Br	S	Adenine	Br	O-acyl
CH_3	H	Br	S	Hypoxanthine	Br	O-acyl
CH_3	H	Br	S	5-Fluorouracil	Br	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Br	S	Thymine	Cl	O-amino acid
CH_3	H	Br	S	Uracil	Cl	O-amino acid
CH_3	H	Br	S	Guanine	Cl	O-amino acid
CH_3	H	Br	S	Cytosine	Cl	O-amino acid
CH_3	H	Br	S	Adenine	Cl	O-amino acid
CH_3	H	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	Thymine	Cl	O-acyl
CH_3	H	Br	S	Uracil	Cl	O-acyl
CH_3	H	Br	S	Guanine	Cl	O-acyl
CH_3	H	Br	S	Cytosine	Cl	O-acyl
CH_3	H	Br	S	Adenine	Cl	O-acyl
CH_3	H	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	H	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	Thymine	H	O-amino acid
CH_3	H	Br	S	Uracil	H	O-amino acid
CH_3	H	Br	S	Guanine	H	O-amino acid
CH_3	H	Br	S	Cytosine	H	O-amino acid
CH_3	H	Br	S	Adenine	H	O-amino acid
CH_3	H	Br	S	Hypoxanthine	H	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Br	S	Thymine	H	O-acyl
CH_3	H	Br	S	Uracil	H	O-acyl
CH_3	H	Br	S	Guanine	H	O-acyl
CH_3	H	Br	S	Cytosine	H	O-acyl
CH_3	H	Br	S	Adenine	H	O-acyl
CH_3	H	Br	S	Hypoxanthine	H	O-acyl
CH_3	H	Br	S	5-Fluorouracil	H	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	H	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-Aminoadenine	H	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Cl	S	Thymine	F	O-amino acid
CH_3	H	Cl	S	Uracil	F	O-amino acid
CH_3	H	Cl	S	Guanine	F	O-amino acid
CH_3	H	Cl	S	Cytosine	F	O-amino acid
CH_3	H	Cl	S	Adenine	F	O-amino acid
CH_3	H	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	Thymine	F	O-acyl
CH_3	H	Cl	S	Uracil	F	O-acyl
CH_3	H	Cl	S	Guanine	F	O-acyl
CH_3	H	Cl	S	Cytosine	F	O-acyl
CH_3	H	Cl	S	Adenine	F	O-acyl
CH_3	H	Cl	S	Hypoxanthine	F	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	H	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Cl	S	Thymine	Br	O-amino acid
CH_3	H	Cl	S	Uracil	Br	O-amino acid
CH_3	H	Cl	S	Guanine	Br	O-amino acid
CH_3	H	Cl	S	Cytosine	Br	O-amino acid
CH_3	H	Cl	S	Adenine	Br	O-amino acid
CH_3	H	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	Thymine	Br	O-acyl
CH_3	H	Cl	S	Uracil	Br	O-acyl
CH_3	H	Cl	S	Guanine	Br	O-acyl
CH_3	H	Cl	S	Cytosine	Br	O-acyl
CH_3	H	Cl	S	Adenine	Br	O-acyl
CH_3	H	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	H	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	Thymine	Cl	O-amino acid
CH_3	H	Cl	S	Uracil	Cl	O-amino acid
CH_3	H	Cl	S	Guanine	Cl	O-amino acid
CH_3	H	Cl	S	Cytosine	Cl	O-amino acid
CH_3	H	Cl	S	Adenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	Thymine	Cl	O-acyl
CH_3	H	Cl	S	Uracil	Cl	O-acyl
CH_3	H	Cl	S	Guanine	Cl	O-acyl
CH_3	H	Cl	S	Cytosine	Cl	O-acyl
CH_3	H	Cl	S	Adenine	Cl	O-acyl
CH_3	H	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	Thymine	H	O-amino acid
CH_3	H	Cl	S	Uracil	H	O-amino acid
CH_3	H	Cl	S	Guanine	H	O-amino acid
CH_3	H	Cl	S	Cytosine	H	O-amino acid
CH_3	H	Cl	S	Adenine	H	O-amino acid
CH_3	H	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	Thymine	H	O-acyl
CH_3	H	Cl	S	Uracil	H	O-acyl
CH_3	H	Cl	S	Guanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	Cytosine	H	O-acyl
CH_3	H	Cl	S	Adenine	H	O-acyl
CH_3	H	Cl	S	Hypoxanthine	H	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	H	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	H	O-acyl
CH_3	H	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	H	S	Thymine	F	O-amino acid
CH_3	H	H	S	Uracil	F	O-amino acid
CH_3	H	H	S	Guanine	F	O-amino acid
CH_3	H	H	S	Cytosine	F	O-amino acid
CH_3	H	H	S	Adenine	F	O-amino acid
CH_3	H	H	S	Hypoxanthine	F	O-amino acid
CH_3	H	H	S	5-Fluorouracil	F	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	2-Aminoadenine	F	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	H	S	Thymine	F	O-acyl
CH_3	H	H	S	Uracil	F	O-acyl
CH_3	H	H	S	Guanine	F	O-acyl
CH_3	H	H	S	Cytosine	F	O-acyl
CH_3	H	H	S	Adenine	F	O-acyl
CH_3	H	H	S	Hypoxanthine	F	O-acyl
CH_3	H	H	S	5-Fluorouracil	F	O-acyl
CH_3	H	H	S	8-Fluoroguanine	F	O-acyl
CH_3	H	H	S	5-Fluorocytosine	F	O-acyl
CH_3	H	H	S	8-Fluoroadenine	F	O-acyl
CH_3	H	H	S	2-Fluoroadenine	F	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2-Aminoadenine	F	O-acyl
CH_3	H	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	H	S	2-N-acetylguanine	F	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	H	S	6-N-acetyladenine	F	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	H	S	Thymine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	Uracil	Br	O-amino acid
CH_3	H	H	S	Guanine	Br	O-amino acid
CH_3	H	H	S	Cytosine	Br	O-amino acid
CH_3	H	H	S	Adenine	Br	O-amino acid
CH_3	H	H	S	Hypoxanthine	Br	O-amino acid
CH_3	H	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	H	S	Thymine	Br	O-acyl
CH_3	H	H	S	Uracil	Br	O-acyl
CH_3	H	H	S	Guanine	Br	O-acyl
CH_3	H	H	S	Cytosine	Br	O-acyl
CH_3	H	H	S	Adenine	Br	O-acyl
CH_3	H	H	S	Hypoxanthine	Br	O-acyl
CH_3	H	H	S	5-Fluorouracil	Br	O-acyl
CH_3	H	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-Aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	H	S	Thymine	Cl	O-amino acid
CH_3	H	H	S	Uracil	Cl	O-amino acid
CH_3	H	H	S	Guanine	Cl	O-amino acid
CH_3	H	H	S	Cytosine	Cl	O-amino acid
CH_3	H	H	S	Adenine	Cl	O-amino acid
CH_3	H	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	Thymine	Cl	O-acyl
CH_3	H	H	S	Uracil	Cl	O-acyl
CH_3	H	H	S	Guanine	Cl	O-acyl
CH_3	H	H	S	Cytosine	Cl	O-acyl
CH_3	H	H	S	Adenine	Cl	O-acyl
CH_3	H	H	S	Hypoxanthine	Cl	O-acyl
CH_3	H	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	H	S	Thymine	H	O-amino acid
CH_3	H	H	S	Uracil	H	O-amino acid
CH_3	H	H	S	Guanine	H	O-amino acid
CH_3	H	H	S	Cytosine	H	O-amino acid
CH_3	H	H	S	Adenine	H	O-amino acid
CH_3	H	H	S	Hypoxanthine	H	O-amino acid
CH_3	H	H	S	5-Fluorouracil	H	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-Aminoadenine	H	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	H	S	Thymine	H	O-acyl
CH_3	H	H	S	Uracil	H	O-acyl
CH_3	H	H	S	Guanine	H	O-acyl
CH_3	H	H	S	Cytosine	H	O-acyl
CH_3	H	H	S	Adenine	H	O-acyl
CH_3	H	H	S	Hypoxanthine	H	O-acyl
CH_3	H	H	S	5-Fluorouracil	H	O-acyl
CH_3	H	H	S	8-Fluoroguanine	H	O-acyl
CH_3	H	H	S	5-Fluorocytosine	H	O-acyl
CH_3	H	H	S	8-Fluoroadenine	H	O-acyl
CH_3	H	H	S	2-Fluoroadenine	H	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-Aminoadenine	H	O-acyl
CH_3	H	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	H	S	2-N-acetylguanine	H	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	H	S	6-N-acetyladenine	H	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	OH	S	Thymine	F	O-amino acid
CH_3	H	OH	S	Uracil	F	O-amino acid
CH_3	H	OH	S	Guanine	F	O-amino acid
CH_3	H	OH	S	Cytosine	F	O-amino acid
CH_3	H	OH	S	Adenine	F	O-amino acid
CH_3	H	OH	S	Hypoxanthine	F	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	F	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	F	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	OH	S	Thymine	F	O-acyl
CH_3	H	OH	S	Uracil	F	O-acyl
CH_3	H	OH	S	Guanine	F	O-acyl
CH_3	H	OH	S	Cytosine	F	O-acyl
CH_3	H	OH	S	Adenine	F	O-acyl
CH_3	H	OH	S	Hypoxanthine	F	O-acyl
CH_3	H	OH	S	5-Fluorouracil	F	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	F	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	F	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	F	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-Aminoadenine	F	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	F	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	F	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	OH	S	Thymine	Br	O-amino acid
CH_3	H	OH	S	Uracil	Br	O-amino acid
CH_3	H	OH	S	Guanine	Br	O-amino acid
CH_3	H	OH	S	Cytosine	Br	O-amino acid
CH_3	H	OH	S	Adenine	Br	O-amino acid
CH_3	H	OH	S	Hypoxanthine	Br	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	Thymine	Br	O-acyl
CH_3	H	OH	S	Uracil	Br	O-acyl
CH_3	H	OH	S	Guanine	Br	O-acyl
CH_3	H	OH	S	Cytosine	Br	O-acyl
CH_3	H	OH	S	Adenine	Br	O-acyl
CH_3	H	OH	S	Hypoxanthine	Br	O-acyl
CH_3	H	OH	S	5-Fluorouracil	Br	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-Aminoadenine	Br	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	OH	S	Thymine	Cl	O-amino acid
CH_3	H	OH	S	Uracil	Cl	O-amino acid
CH_3	H	OH	S	Guanine	Cl	O-amino acid
CH_3	H	OH	S	Cytosine	Cl	O-amino acid
CH_3	H	OH	S	Adenine	Cl	O-amino acid
CH_3	H	OH	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	Thymine	Cl	O-acyl
CH_3	H	OH	S	Uracil	Cl	O-acyl
CH_3	H	OH	S	Guanine	Cl	O-acyl
CH_3	H	OH	S	Cytosine	Cl	O-acyl
CH_3	H	OH	S	Adenine	Cl	O-acyl
CH_3	H	OH	S	Hypoxanthine	Cl	O-acyl
CH_3	H	OH	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	Thymine	H	O-amino acid
CH_3	H	OH	S	Uracil	H	O-amino acid
CH_3	H	OH	S	Guanine	H	O-amino acid
CH_3	H	OH	S	Cytosine	H	O-amino acid
CH_3	H	OH	S	Adenine	H	O-amino acid
CH_3	H	OH	S	Hypoxanthine	H	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	H	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	H	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	OH	S	Thymine	H	O-acyl
CH_3	H	OH	S	Uracil	H	O-acyl
CH_3	H	OH	S	Guanine	H	O-acyl
CH_3	H	OH	S	Cytosine	H	O-acyl
CH_3	H	OH	S	Adenine	H	O-acyl
CH_3	H	OH	S	Hypoxanthine	H	O-acyl
CH_3	H	OH	S	5-Fluorouracil	H	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	5-Fluorocytosine	H	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	H	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-Aminoadenine	H	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	H	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	H	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	Thymine	F	H
CF_3	O-acyl	F	S	Uracil	F	H
CF_3	O-acyl	F	S	Guanine	F	H
CF_3	O-acyl	F	S	Cytosine	F	H
CF_3	O-acyl	F	S	Adenine	F	H
CF_3	O-acyl	F	S	Hypoxanthine	F	H
CF_3	O-acyl	F	S	5-Fluorouracil	F	H
CF_3	O-acyl	F	S	8-Fluoroguanine	F	H
CF_3	O-acyl	F	S	5-Fluorocytosine	F	H
CF_3	O-acyl	F	S	8-Fluoroadenine	F	H
CF_3	O-acyl	F	S	2-Fluoroadenine	F	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-Aminoadenine	F	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	F	S	2-N-acetylguanine	F	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	F	S	6-N-acetyladenine	F	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	F	S	Thymine	F	O-amino acid
CF_3	O-acyl	F	S	Uracil	F	O-amino acid
CF_3	O-acyl	F	S	Guanine	F	O-amino acid
CF_3	O-acyl	F	S	Cytosine	F	O-amino acid
CF_3	O-acyl	F	S	Adenine	F	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	Thymine	F	O-acyl
CF_3	O-acyl	F	S	Uracil	F	O-acyl
CF_3	O-acyl	F	S	Guanine	F	O-acyl
CF_3	O-acyl	F	S	Cytosine	F	O-acyl
CF_3	O-acyl	F	S	Adenine	F	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	Thymine	F	OH
CF_3	O-acyl	F	S	Uracil	F	OH
CF_3	O-acyl	F	S	Guanine	F	OH
CF_3	O-acyl	F	S	Cytosine	F	OH
CF_3	O-acyl	F	S	Adenine	F	OH
CF_3	O-acyl	F	S	Hypoxanthine	F	OH
CF_3	O-acyl	F	S	5-Fluorouracil	F	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-Aminoadenine	F	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	F	S	Thymine	Br	H
CF_3	O-acyl	F	S	Uracil	Br	H
CF_3	O-acyl	F	S	Guanine	Br	H
CF_3	O-acyl	F	S	Cytosine	Br	H
CF_3	O-acyl	F	S	Adenine	Br	H
CF_3	O-acyl	F	S	Hypoxanthine	Br	H
CF_3	O-acyl	F	S	5-Fluorouracil	Br	H
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-Aminoadenine	Br	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	F	S	Thymine	Br	O-amino acid
CF_3	O-acyl	F	S	Uracil	Br	O-amino acid
CF_3	O-acyl	F	S	Guanine	Br	O-amino acid
CF_3	O-acyl	F	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	F	S	Adenine	Br	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	Thymine	Br	O-acyl
CF_3	O-acyl	F	S	Uracil	Br	O-acyl
CF_3	O-acyl	F	S	Guanine	Br	O-acyl
CF_3	O-acyl	F	S	Cytosine	Br	O-acyl
CF_3	O-acyl	F	S	Adenine	Br	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	Thymine	Br	OH
CF_3	O-acyl	F	S	Uracil	Br	OH
CF_3	O-acyl	F	S	Guanine	Br	OH
CF_3	O-acyl	F	S	Cytosine	Br	OH
CF_3	O-acyl	F	S	Adenine	Br	OH
CF_3	O-acyl	F	S	Hypoxanthine	Br	OH
CF_3	O-acyl	F	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	F	S	Thymine	Cl	O-acyl
CF_3	O-acyl	F	S	Uracil	Cl	O-acyl
CF_3	O-acyl	F	S	Guanine	Cl	O-acyl
CF_3	O-acyl	F	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	F	S	Adenine	Cl	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	Thymine	Cl	OH
CF_3	O-acyl	F	S	Uracil	Cl	OH
CF_3	O-acyl	F	S	Guanine	Cl	OH
CF_3	O-acyl	F	S	Cytosine	Cl	OH
CF_3	O-acyl	F	S	Adenine	Cl	OH
CF_3	O-acyl	F	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	Thymine	Cl	H
CF_3	O-acyl	F	S	Uracil	Cl	H
CF_3	O-acyl	F	S	Guanine	Cl	H
CF_3	O-acyl	F	S	Cytosine	Cl	H
CF_3	O-acyl	F	S	Adenine	Cl	H
CF_3	O-acyl	F	S	Hypoxanthine	Cl	H
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	F	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	F	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	F	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	F	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	Thymine	H	H
CF_3	O-acyl	F	S	Uracil	H	H
CF_3	O-acyl	F	S	Guanine	H	H
CF_3	O-acyl	F	S	Cytosine	H	H
CF_3	O-acyl	F	S	Adenine	H	H
CF_3	O-acyl	F	S	Hypoxanthine	H	H
CF_3	O-acyl	F	S	5-Fluorouracil	H	H
CF_3	O-acyl	F	S	8-Fluoroguanine	H	H
CF_3	O-acyl	F	S	5-Fluorocytosine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluoroadenine	H	H
CF_3	O-acyl	F	S	2-Fluoroadenine	H	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-Aminoadenine	H	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	F	S	2-N-acetylguanine	H	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	F	S	6-N-acetyladenine	H	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	F	S	Thymine	H	O-amino acid
CF_3	O-acyl	F	S	Uracil	H	O-amino acid
CF_3	O-acyl	F	S	Guanine	H	O-amino acid
CF_3	O-acyl	F	S	Cytosine	H	O-amino acid
CF_3	O-acyl	F	S	Adenine	H	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	Thymine	H	O-acyl
CF_3	O-acyl	F	S	Uracil	H	O-acyl
CF_3	O-acyl	F	S	Guanine	H	O-acyl
CF_3	O-acyl	F	S	Cytosine	H	O-acyl
CF_3	O-acyl	F	S	Adenine	H	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	Thymine	H	OH
CF_3	O-acyl	F	S	Uracil	H	OH
CF_3	O-acyl	F	S	Guanine	H	OH
CF_3	O-acyl	F	S	Cytosine	H	OH
CF_3	O-acyl	F	S	Adenine	H	OH
CF_3	O-acyl	F	S	Hypoxanthine	H	OH
CF_3	O-acyl	F	S	5-Fluorouracil	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-Aminoadenine	H	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	F	S	Thymine	OH	H
CF_3	O-acyl	F	S	Uracil	OH	H
CF_3	O-acyl	F	S	Guanine	OH	H
CF_3	O-acyl	F	S	Cytosine	OH	H
CF_3	O-acyl	F	S	Adenine	OH	H
CF_3	O-acyl	F	S	Hypoxanthine	OH	H
CF_3	O-acyl	F	S	5-Fluorouracil	OH	H
CF_3	O-acyl	F	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	F	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	F	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-Aminoadenine	OH	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	F	S	6-N-acetyladenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Br	S	Thymine	F	H
CF_3	O-acyl	Br	S	Uracil	F	H
CF_3	O-acyl	Br	S	Guanine	F	H
CF_3	O-acyl	Br	S	Cytosine	F	H
CF_3	O-acyl	Br	S	Adenine	F	H
CF_3	O-acyl	Br	S	Hypoxanthine	F	H
CF_3	O-acyl	Br	S	5-Fluorouracil	F	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-Aminoadenine	F	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Br	S	Thymine	F	O-amino acid
CF_3	O-acyl	Br	S	Uracil	F	O-amino acid
CF_3	O-acyl	Br	S	Guanine	F	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	F	O-amino acid
CF_3	O-acyl	Br	S	Adenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	Thymine	F	O-acyl
CF_3	O-acyl	Br	S	Uracil	F	O-acyl
CF_3	O-acyl	Br	S	Guanine	F	O-acyl
CF_3	O-acyl	Br	S	Cytosine	F	O-acyl
CF_3	O-acyl	Br	S	Adenine	F	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	Thymine	F	OH
CF_3	O-acyl	Br	S	Uracil	F	OH
CF_3	O-acyl	Br	S	Guanine	F	OH
CF_3	O-acyl	Br	S	Cytosine	F	OH
CF_3	O-acyl	Br	S	Adenine	F	OH
CF_3	O-acyl	Br	S	Hypoxanthine	F	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	F	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	F	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Br	S	Thymine	Br	H
CF_3	O-acyl	Br	S	Uracil	Br	H
CF_3	O-acyl	Br	S	Guanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Cytosine	Br	H
CF_3	O-acyl	Br	S	Adenine	Br	H
CF_3	O-acyl	Br	S	Hypoxanthine	Br	H
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Br	S	Thymine	Br	O-amino acid
CF_3	O-acyl	Br	S	Uracil	Br	O-amino acid
CF_3	O-acyl	Br	S	Guanine	Br	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	Adenine	Br	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	Thymine	Br	O-acyl
CF_3	O-acyl	Br	S	Uracil	Br	O-acyl
CF_3	O-acyl	Br	S	Guanine	Br	O-acyl
CF_3	O-acyl	Br	S	Cytosine	Br	O-acyl
CF_3	O-acyl	Br	S	Adenine	Br	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	Thymine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Uracil	Br	OH
CF_3	O-acyl	Br	S	Guanine	Br	OH
CF_3	O-acyl	Br	S	Cytosine	Br	OH
CF_3	O-acyl	Br	S	Adenine	Br	OH
CF_3	O-acyl	Br	S	Hypoxanthine	Br	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	Thymine	Cl	H
CF_3	O-acyl	Br	S	Uracil	Cl	H
CF_3	O-acyl	Br	S	Guanine	Cl	H
CF_3	O-acyl	Br	S	Cytosine	Cl	H
CF_3	O-acyl	Br	S	Adenine	Cl	H
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	H
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	Br	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Thymine	Cl	O-acyl
CF_3	O-acyl	Br	S	Uracil	Cl	O-acyl
CF_3	O-acyl	Br	S	Guanine	Cl	O-acyl
CF_3	O-acyl	Br	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	Adenine	Cl	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	Thymine	Cl	OH
CF_3	O-acyl	Br	S	Uracil	Cl	OH
CF_3	O-acyl	Br	S	Guanine	Cl	OH
CF_3	O-acyl	Br	S	Cytosine	Cl	OH
CF_3	O-acyl	Br	S	Adenine	Cl	OH
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	Thymine	H	H
CF_3	O-acyl	Br	S	Uracil	H	H
CF_3	O-acyl	Br	S	Guanine	H	H
CF_3	O-acyl	Br	S	Cytosine	H	H
CF_3	O-acyl	Br	S	Adenine	H	H
CF_3	O-acyl	Br	S	Hypoxanthine	H	H
CF_3	O-acyl	Br	S	5-Fluorouracil	H	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-Aminoadenine	H	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Br	S	Thymine	H	O-amino acid
CF_3	O-acyl	Br	S	Uracil	H	O-amino acid
CF_3	O-acyl	Br	S	Guanine	H	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	H	O-amino acid
CF_3	O-acyl	Br	S	Adenine	H	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	Thymine	H	O-acyl
CF_3	O-acyl	Br	S	Uracil	H	O-acyl
CF_3	O-acyl	Br	S	Guanine	H	O-acyl
CF_3	O-acyl	Br	S	Cytosine	H	O-acyl
CF_3	O-acyl	Br	S	Adenine	H	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	Thymine	H	OH
CF_3	O-acyl	Br	S	Uracil	H	OH
CF_3	O-acyl	Br	S	Guanine	H	OH
CF_3	O-acyl	Br	S	Cytosine	H	OH
CF_3	O-acyl	Br	S	Adenine	H	OH
CF_3	O-acyl	Br	S	Hypoxanthine	H	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	H	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	H	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Br	S	Thymine	OH	H
CF_3	O-acyl	Br	S	Uracil	OH	H
CF_3	O-acyl	Br	S	Guanine	OH	H
CF_3	O-acyl	Br	S	Cytosine	OH	H
CF_3	O-acyl	Br	S	Adenine	OH	H
CF_3	O-acyl	Br	S	Hypoxanthine	OH	H
CF_3	O-acyl	Br	S	5-Fluorouracil	OH	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-Aminoadenine	OH	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	Thymine	F	H
CF_3	O-acyl	Cl	S	Uracil	F	H
CF_3	O-acyl	Cl	S	Guanine	F	H
CF_3	O-acyl	Cl	S	Cytosine	F	H
CF_3	O-acyl	Cl	S	Adenine	F	H
CF_3	O-acyl	Cl	S	Hypoxanthine	F	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Cl	S	Thymine	F	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	F	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	F	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	F	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	F	O-acyl
CF_3	O-acyl	Cl	S	Uracil	F	O-acyl
CF_3	O-acyl	Cl	S	Guanine	F	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	F	O-acyl
CF_3	O-acyl	Cl	S	Adenine	F	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	Thymine	F	OH
CF_3	O-acyl	Cl	S	Uracil	F	OH
CF_3	O-acyl	Cl	S	Guanine	F	OH
CF_3	O-acyl	Cl	S	Cytosine	F	OH
CF_3	O-acyl	Cl	S	Adenine	F	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	F	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	Thymine	Br	H
CF_3	O-acyl	Cl	S	Uracil	Br	H
CF_3	O-acyl	Cl	S	Guanine	Br	H
CF_3	O-acyl	Cl	S	Cytosine	Br	H
CF_3	O-acyl	Cl	S	Adenine	Br	H
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	Thymine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	Br	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	Br	O-acyl
CF_3	O-acyl	Cl	S	Uracil	Br	O-acyl
CF_3	O-acyl	Cl	S	Guanine	Br	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	Adenine	Br	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	Thymine	Br	OH
CF_3	O-acyl	Cl	S	Uracil	Br	OH
CF_3	O-acyl	Cl	S	Guanine	Br	OH
CF_3	O-acyl	Cl	S	Cytosine	Br	OH
CF_3	O-acyl	Cl	S	Adenine	Br	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	Thymine	Cl	H
CF_3	O-acyl	Cl	S	Uracil	Cl	H
CF_3	O-acyl	Cl	S	Guanine	Cl	H
CF_3	O-acyl	Cl	S	Cytosine	Cl	H
CF_3	O-acyl	Cl	S	Adenine	Cl	H
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Uracil	Cl	O-acyl
CF_3	O-acyl	Cl	S	Guanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Adenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Thymine	Cl	OH
CF_3	O-acyl	Cl	S	Uracil	Cl	OH
CF_3	O-acyl	Cl	S	Guanine	Cl	OH
CF_3	O-acyl	Cl	S	Cytosine	Cl	OH
CF_3	O-acyl	Cl	S	Adenine	Cl	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	Thymine	I	H
CF_3	O-acyl	Cl	S	Thymine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Uracil	H	H
CF_3	O-acyl	Cl	S	Guanine	H	H
CF_3	O-acyl	Cl	S	Cytosine	H	H
CF_3	O-acyl	Cl	S	Adenine	H	H
CF_3	O-acyl	Cl	S	Hypoxanthine	H	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Cl	S	Thymine	H	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	H	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	H	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	H	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	H	O-acyl
CF_3	O-acyl	Cl	S	Uracil	H	O-acyl
CF_3	O-acyl	Cl	S	Guanine	H	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	H	O-acyl
CF_3	O-acyl	Cl	S	Adenine	H	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	Thymine	H	OH
CF_3	O-acyl	Cl	S	Uracil	H	OH
CF_3	O-acyl	Cl	S	Guanine	H	OH
CF_3	O-acyl	Cl	S	Cytosine	H	OH
CF_3	O-acyl	Cl	S	Adenine	H	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	H	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	Thymine	OH	H
CF_3	O-acyl	Cl	S	Uracil	OH	H
CF_3	O-acyl	Cl	S	Guanine	OH	H
CF_3	O-acyl	Cl	S	Cytosine	OH	H
CF_3	O-acyl	Cl	S	Adenine	OH	H
CF_3	O-acyl	Cl	S	Hypoxanthine	OH	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	OH	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	OH	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	H	S	Thymine	F	H
CF_3	O-acyl	H	S	Uracil	F	H
CF_3	O-acyl	H	S	Guanine	F	H
CF_3	O-acyl	H	S	Cytosine	F	H
CF_3	O-acyl	H	S	Adenine	F	H
CF_3	O-acyl	H	S	Hypoxanthine	F	H
CF_3	O-acyl	H	S	5-Fluorouracil	F	H
CF_3	O-acyl	H	S	8-Fluoroguanine	F	H
CF_3	O-acyl	H	S	5-Fluorocytosine	F	H
CF_3	O-acyl	H	S	8-Fluoroadenine	F	H
CF_3	O-acyl	H	S	2-Fluoroadenine	F	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-Aminoadenine	F	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	H	S	2-N-acetylguanine	F	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	H	S	6-N-acetyladenine	F	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	H	S	Thymine	F	O-amino acid
CF_3	O-acyl	H	S	Uracil	F	O-amino acid
CF_3	O-acyl	H	S	Guanine	F	O-amino acid
CF_3	O-acyl	H	S	Cytosine	F	O-amino acid
CF_3	O-acyl	H	S	Adenine	F	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	Thymine	F	O-acyl
CF_3	O-acyl	H	S	Uracil	F	O-acyl
CF_3	O-acyl	H	S	Guanine	F	O-acyl
CF_3	O-acyl	H	S	Cytosine	F	O-acyl
CF_3	O-acyl	H	S	Adenine	F	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	Thymine	F	OH
CF_3	O-acyl	H	S	Uracil	F	OH
CF_3	O-acyl	H	S	Guanine	F	OH
CF_3	O-acyl	H	S	Cytosine	F	OH
CF_3	O-acyl	H	S	Adenine	F	OH
CF_3	O-acyl	H	S	Hypoxanthine	F	OH
CF_3	O-acyl	H	S	5-Fluorouracil	F	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-Aminoadenine	F	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	H	S	Thymine	Br	H
CF_3	O-acyl	H	S	Uracil	Br	H
CF_3	O-acyl	H	S	Guanine	Br	H
CF_3	O-acyl	H	S	Cytosine	Br	H
CF_3	O-acyl	H	S	Adenine	Br	H
CF_3	O-acyl	H	S	Hypoxanthine	Br	H
CF_3	O-acyl	H	S	5-Fluorouracil	Br	H
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-Aminoadenine	Br	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	H	S	Thymine	Br	O-amino acid
CF_3	O-acyl	H	S	Uracil	Br	O-amino acid
CF_3	O-acyl	H	S	Guanine	Br	O-amino acid
CF_3	O-acyl	H	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	H	S	Adenine	Br	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	Thymine	Br	O-acyl
CF_3	O-acyl	H	S	Uracil	Br	O-acyl
CF_3	O-acyl	H	S	Guanine	Br	O-acyl
CF_3	O-acyl	H	S	Cytosine	Br	O-acyl
CF_3	O-acyl	H	S	Adenine	Br	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	Thymine	Br	OH
CF_3	O-acyl	H	S	Uracil	Br	OH
CF_3	O-acyl	H	S	Guanine	Br	OH
CF_3	O-acyl	H	S	Cytosine	Br	OH
CF_3	O-acyl	H	S	Adenine	Br	OH
CF_3	O-acyl	H	S	Hypoxanthine	Br	OH
CF_3	O-acyl	H	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	H	S	Thymine	Cl	H
CF_3	O-acyl	H	S	Uracil	Cl	H
CF_3	O-acyl	H	S	Guanine	Cl	H
CF_3	O-acyl	H	S	Cytosine	Cl	H
CF_3	O-acyl	H	S	Adenine	Cl	H
CF_3	O-acyl	H	S	Hypoxanthine	Cl	H
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	H	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	H	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	H	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	H	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	Thymine	Cl	O-acyl
CF_3	O-acyl	H	S	Uracil	Cl	O-acyl
CF_3	O-acyl	H	S	Guanine	Cl	O-acyl
CF_3	O-acyl	H	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	H	S	Adenine	Cl	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	Thymine	Cl	OH
CF_3	O-acyl	H	S	Uracil	Cl	OH
CF_3	O-acyl	H	S	Guanine	Cl	OH
CF_3	O-acyl	H	S	Cytosine	Cl	OH
CF_3	O-acyl	H	S	Adenine	Cl	OH
CF_3	O-acyl	H	S	Hypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	Thymine	H	H
CF_3	O-acyl	H	S	Uracil	H	H
CF_3	O-acyl	H	S	Guanine	H	H
CF_3	O-acyl	H	S	Cytosine	H	H
CF_3	O-acyl	H	S	Adenine	H	H
CF_3	O-acyl	H	S	Hypoxanthine	H	H
CF_3	O-acyl	H	S	5-Fluorouracil	H	H
CF_3	O-acyl	H	S	8-Fluoroguanine	H	H
CF_3	O-acyl	H	S	5-Fluorocytosine	H	H
CF_3	O-acyl	H	S	8-Fluoroadenine	H	H
CF_3	O-acyl	H	S	2-Fluoroadenine	H	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-Aminoadenine	H	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	H	S	2-N-acetylguanine	H	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyladenine	H	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	H	S	Thymine	H	O-amino acid
CF_3	O-acyl	H	S	Uracil	H	O-amino acid
CF_3	O-acyl	H	S	Guanine	H	O-amino acid
CF_3	O-acyl	H	S	Cytosine	H	O-amino acid
CF_3	O-acyl	H	S	Adenine	H	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	Thymine	H	O-acyl
CF_3	O-acyl	H	S	Uracil	H	O-acyl
CF_3	O-acyl	H	S	Guanine	H	O-acyl
CF_3	O-acyl	H	S	Cytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	Adenine	H	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	Thymine	H	OH
CF_3	O-acyl	H	S	Uracil	H	OH
CF_3	O-acyl	H	S	Guanine	H	OH
CF_3	O-acyl	H	S	Cytosine	H	OH
CF_3	O-acyl	H	S	Adenine	H	OH
CF_3	O-acyl	H	S	Hypoxanthine	H	OH
CF_3	O-acyl	H	S	5-Fluorouracil	H	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-Aminoadenine	H	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	H	S	Thymine	OH	H
CF_3	O-acyl	H	S	Uracil	OH	H
CF_3	O-acyl	H	S	Guanine	OH	H
CF_3	O-acyl	H	S	Cytosine	OH	H
CF_3	O-acyl	H	S	Adenine	OH	H
CF_3	O-acyl	H	S	Hypoxanthine	OH	H
CF_3	O-acyl	H	S	5-Fluorouracil	OH	H
CF_3	O-acyl	H	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	H	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	H	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-Aminoadenine	OH	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	H	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	F	S	Thymine	F	H
CF_3	O-amino acid	F	S	Uracil	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	Guanine	F	H
CF_3	O-amino acid	F	S	Cytosine	F	H
CF_3	O-amino acid	F	S	Adenine	F	H
CF_3	O-amino acid	F	S	Hypoxanthine	F	H
CF_3	O-amino acid	F	S	5-Fluorouracil	F	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-Aminoadenine	F	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	F	S	Thymine	F	O-amino acid
CF_3	O-amino acid	F	S	Uracil	F	O-amino acid
CF_3	O-amino acid	F	S	Guanine	F	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	F	S	Adenine	F	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	Thymine	F	O-acyl
CF_3	O-amino acid	F	S	Uracil	F	O-acyl
CF_3	O-amino acid	F	S	Guanine	F	O-acyl
CF_3	O-amino acid	F	S	Cytosine	F	O-acyl
CF_3	O-amino acid	F	S	Adenine	F	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	Thymine	F	OH
CF_3	O-amino acid	F	S	Uracil	F	OH
CF_3	O-amino acid	F	S	Guanine	F	OH
CF_3	O-amino acid	F	S	Cytosine	F	OH
CF_3	O-amino acid	F	S	Adenine	F	OH
CF_3	O-amino acid	F	S	Hypoxanthine	F	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	F	S	Thymine	Br	H
CF_3	O-amino acid	F	S	Uracil	Br	H
CF_3	O-amino acid	F	S	Guanine	Br	H
CF_3	O-amino acid	F	S	Cytosine	Br	H
CF_3	O-amino acid	F	S	Adenine	Br	H
CF_3	O-amino acid	F	S	Hypoxanthine	Br	H
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	F	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	F	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	F	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	Thymine	Br	O-acyl
CF_3	O-amino acid	F	S	Uracil	Br	O-acyl
CF_3	O-amino acid	F	S	Guanine	Br	O-acyl
CF_3	O-amino acid	F	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	F	S	Adenine	Br	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	Thymine	Br	OH
CF_3	O-amino acid	F	S	Uracil	Br	OH
CF_3	O-amino acid	F	S	Guanine	Br	OH
CF_3	O-amino acid	F	S	Cytosine	Br	OH
CF_3	O-amino acid	F	S	Adenine	Br	OH
CF_3	O-amino acid	F	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	Thymine	Cl	H
CF_3	O-amino acid	F	S	Uracil	Cl	H
CF_3	O-amino acid	F	S	Guanine	Cl	H
CF_3	O-amino acid	F	S	Cytosine	Cl	H
CF_3	O-amino acid	F	S	Adenine	Cl	H
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	F	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	F	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	F	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	F	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	Thymine	Cl	OH
CF_3	O-amino acid	F	S	Uracil	Cl	OH
CF_3	O-amino acid	F	S	Guanine	Cl	OH
CF_3	O-amino acid	F	S	Cytosine	Cl	OH
CF_3	O-amino acid	F	S	Adenine	Cl	OH
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	Thymine	H	H
CF_3	O-amino acid	F	S	Uracil	H	H
CF_3	O-amino acid	F	S	Guanine	H	H
CF_3	O-amino acid	F	S	Cytosine	H	H
CF_3	O-amino acid	F	S	Adenine	H	H
CF_3	O-amino acid	F	S	Hypoxanthine	H	H
CF_3	O-amino acid	F	S	5-Fluorouracil	H	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-Aminoadenine	H	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	F	S	Thymine	H	O-amino acid
CF_3	O-amino acid	F	S	Uracil	H	O-amino acid
CF_3	O-amino acid	F	S	Guanine	H	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	F	S	Adenine	H	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	Thymine	H	O-acyl
CF_3	O-amino acid	F	S	Uracil	H	O-acyl
CF_3	O-amino acid	F	S	Guanine	H	O-acyl
CF_3	O-amino acid	F	S	Cytosine	H	O-acyl
CF_3	O-amino acid	F	S	Adenine	H	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	Thymine	H	OH
CF_3	O-amino acid	F	S	Uracil	H	OH
CF_3	O-amino acid	F	S	Guanine	H	OH
CF_3	O-amino acid	F	S	Cytosine	H	OH
CF_3	O-amino acid	F	S	Adenine	H	OH
CF_3	O-amino acid	F	S	Hypoxanthine	H	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	F	S	Thymine	OH	H
CF_3	O-amino acid	F	S	Uracil	OH	H
CF_3	O-amino acid	F	S	Guanine	OH	H
CF_3	O-amino acid	F	S	Cytosine	OH	H
CF_3	O-amino acid	F	S	Adenine	OH	H
CF_3	O-amino acid	F	S	Hypoxanthine	OH	H
CF_3	O-amino acid	F	S	5-Fluorouracil	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	Thymine	F	H
CF_3	O-amino acid	Br	S	Uracil	F	H
CF_3	O-amino acid	Br	S	Guanine	F	H
CF_3	O-amino acid	Br	S	Cytosine	F	H
CF_3	O-amino acid	Br	S	Adenine	F	H
CF_3	O-amino acid	Br	S	Hypoxanthine	F	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Br	S	Thymine	F	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	F	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	F	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	F	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	F	O-acyl
CF_3	O-amino acid	Br	S	Uracil	F	O-acyl
CF_3	O-amino acid	Br	S	Guanine	F	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	F	O-acyl
CF_3	O-amino acid	Br	S	Adenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	Thymine	F	OH
CF_3	O-amino acid	Br	S	Uracil	F	OH
CF_3	O-amino acid	Br	S	Guanine	F	OH
CF_3	O-amino acid	Br	S	Cytosine	F	OH
CF_3	O-amino acid	Br	S	Adenine	F	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	F	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	Thymine	Br	H
CF_3	O-amino acid	Br	S	Uracil	Br	H
CF_3	O-amino acid	Br	S	Guanine	Br	H
CF_3	O-amino acid	Br	S	Cytosine	Br	H
CF_3	O-amino acid	Br	S	Adenine	Br	H
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	Br	O-acyl
CF_3	O-amino acid	Br	S	Uracil	Br	O-acyl
CF_3	O-amino acid	Br	S	Guanine	Br	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	Adenine	Br	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	Thymine	Br	OH
CF_3	O-amino acid	Br	S	Uracil	Br	OH
CF_3	O-amino acid	Br	S	Guanine	Br	OH
CF_3	O-amino acid	Br	S	Cytosine	Br	OH
CF_3	O-amino acid	Br	S	Adenine	Br	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	Thymine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Uracil	Cl	H
CF_3	O-amino acid	Br	S	Guanine	Cl	H
CF_3	O-amino acid	Br	S	Cytosine	Cl	H
CF_3	O-amino acid	Br	S	Adenine	Cl	H
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	Br	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Thymine	Cl	OH
CF_3	O-amino acid	Br	S	Uracil	Cl	OH
CF_3	O-amino acid	Br	S	Guanine	Cl	OH
CF_3	O-amino acid	Br	S	Cytosine	Cl	OH
CF_3	O-amino acid	Br	S	Adenine	Cl	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	Thymine	H	H
CF_3	O-amino acid	Br	S	Uracil	H	H
CF_3	O-amino acid	Br	S	Guanine	H	H
CF_3	O-amino acid	Br	S	Cytosine	H	H
CF_3	O-amino acid	Br	S	Adenine	H	H
CF_3	O-amino acid	Br	S	Hypoxanthine	H	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Br	S	Thymine	H	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	H	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	H	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	H	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-amino acid
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CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	H	O-acyl
CF_3	O-amino acid	Br	S	Uracil	H	O-acyl
CF_3	O-amino acid	Br	S	Guanine	H	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	H	O-acyl
CF_3	O-amino acid	Br	S	Adenine	H	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	Thymine	H	OH
CF_3	O-amino acid	Br	S	Uracil	H	OH
CF_3	O-amino acid	Br	S	Guanine	H	OH
CF_3	O-amino acid	Br	S	Cytosine	H	OH
CF_3	O-amino acid	Br	S	Adenine	H	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	H	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	Thymine	OH	H
CF_3	O-amino acid	Br	S	Uracil	OH	H
CF_3	O-amino acid	Br	S	Guanine	OH	H
CF_3	O-amino acid	Br	S	Cytosine	OH	H
CF_3	O-amino acid	Br	S	Adenine	OH	H
CF_3	O-amino acid	Br	S	Hypoxanthine	OH	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	Thymine	F	H
CF_3	O-amino acid	Cl	S	Uracil	F	H
CF_3	O-amino acid	Cl	S	Guanine	F	H
CF_3	O-amino acid	Cl	S	Cytosine	F	H
CF_3	O-amino acid	Cl	S	Adenine	F	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	Thymine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	F	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	F	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	F	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	F	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	F	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	F	OH
CF_3	O-amino acid	Cl	S	Uracil	F	OH
CF_3	O-amino acid	Cl	S	Guanine	F	OH
CF_3	O-amino acid	Cl	S	Cytosine	F	OH
CF_3	O-amino acid	Cl	S	Adenine	F	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	Thymine	Br	H
CF_3	O-amino acid	Cl	S	Uracil	Br	H
CF_3	O-amino acid	Cl	S	Guanine	Br	H
CF_3	O-amino acid	Cl	S	Cytosine	Br	H
CF_3	O-amino acid	Cl	S	Adenine	Br	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	Br	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	Br	OH
CF_3	O-amino acid	Cl	S	Uracil	Br	OH
CF_3	O-amino acid	Cl	S	Guanine	Br	OH
CF_3	O-amino acid	Cl	S	Cytosine	Br	OH
CF_3	O-amino acid	Cl	S	Adenine	Br	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	Thymine	Cl	H
CF_3	O-amino acid	Cl	S	Uracil	Cl	H
CF_3	O-amino acid	Cl	S	Guanine	Cl	H
CF_3	O-amino acid	Cl	S	Cytosine	Cl	H
CF_3	O-amino acid	Cl	S	Adenine	Cl	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	Cl	OH
CF_3	O-amino acid	Cl	S	Uracil	Cl	OH
CF_3	O-amino acid	Cl	S	Guanine	Cl	OH
CF_3	O-amino acid	Cl	S	Cytosine	Cl	OH
CF_3	O-amino acid	Cl	S	Adenine	Cl	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	Thymine	H	H
CF_3	O-amino acid	Cl	S	Uracil	H	H
CF_3	O-amino acid	Cl	S	Guanine	H	H
CF_3	O-amino acid	Cl	S	Cytosine	H	H
CF_3	O-amino acid	Cl	S	Adenine	H	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	Thymine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Guanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	H	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	H	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	H	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	H	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	H	OH
CF_3	O-amino acid	Cl	S	Uracil	H	OH
CF_3	O-amino acid	Cl	S	Guanine	H	OH
CF_3	O-amino acid	Cl	S	Cytosine	H	OH
CF_3	O-amino acid	Cl	S	Adenine	H	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Thymine	OH	H
CF_3	O-amino acid	Cl	S	Uracil	OH	H
CF_3	O-amino acid	Cl	S	Guanine	OH	H
CF_3	O-amino acid	Cl	S	Cytosine	OH	H
CF_3	O-amino acid	Cl	S	Adenine	OH	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	H	S	Thymine	F	H
CF_3	O-amino acid	H	S	Uracil	F	H
CF_3	O-amino acid	H	S	Guanine	F	H
CF_3	O-amino acid	H	S	Cytosine	F	H
CF_3	O-amino acid	H	S	Adenine	F	H
CF_3	O-amino acid	H	S	Hypoxanthine	F	H
CF_3	O-amino acid	H	S	5-Fluorouracil	F	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Aminoadenine	F	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	H	S	Thymine	F	O-amino acid
CF_3	O-amino acid	H	S	Uracil	F	O-amino acid
CF_3	O-amino acid	H	S	Guanine	F	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	H	S	Adenine	F	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	Thymine	F	O-acyl
CF_3	O-amino acid	H	S	Uracil	F	O-acyl
CF_3	O-amino acid	H	S	Guanine	F	O-acyl
CF_3	O-amino acid	H	S	Cytosine	F	O-acyl
CF_3	O-amino acid	H	S	Adenine	F	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	Thymine	F	OH
CF_3	O-amino acid	H	S	Uracil	F	OH
CF_3	O-amino acid	H	S	Guanine	F	OH
CF_3	O-amino acid	H	S	Cytosine	F	OH
CF_3	O-amino acid	H	S	Adenine	F	OH
CF_3	O-amino acid	H	S	Hypoxanthine	F	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	H	S	Thymine	Br	H
CF_3	O-amino acid	H	S	Uracil	Br	H
CF_3	O-amino acid	H	S	Guanine	Br	H
CF_3	O-amino acid	H	S	Cytosine	Br	H
CF_3	O-amino acid	H	S	Adenine	Br	H
CF_3	O-amino acid	H	S	Hypoxanthine	Br	H
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	H	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	H	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	H	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	Thymine	Br	O-acyl
CF_3	O-amino acid	H	S	Uracil	Br	O-acyl
CF_3	O-amino acid	H	S	Guanine	Br	O-acyl
CF_3	O-amino acid	H	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	H	S	Adenine	Br	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	Thymine	Br	OH
CF_3	O-amino acid	H	S	Uracil	Br	OH
CF_3	O-amino acid	H	S	Guanine	Br	OH
CF_3	O-amino acid	H	S	Cytosine	Br	OH
CF_3	O-amino acid	H	S	Adenine	Br	OH
CF_3	O-amino acid	H	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	Thymine	Cl	H
CF_3	O-amino acid	H	S	Uracil	Cl	H
CF_3	O-amino acid	H	S	Guanine	Cl	H
CF_3	O-amino acid	H	S	Cytosine	Cl	H
CF_3	O-amino acid	H	S	Adenine	Cl	H
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	H	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	H	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	H	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	H	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	Thymine	Cl	OH
CF_3	O-amino acid	H	S	Uracil	Cl	OH
CF_3	O-amino acid	H	S	Guanine	Cl	OH
CF_3	O-amino acid	H	S	Cytosine	Cl	OH
CF_3	O-amino acid	H	S	Adenine	Cl	OH
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	Thymine	H	H
CF_3	O-amino acid	H	S	Uracil	H	H
CF_3	O-amino acid	H	S	Guanine	H	H
CF_3	O-amino acid	H	S	Cytosine	H	H
CF_3	O-amino acid	H	S	Adenine	H	H
CF_3	O-amino acid	H	S	Hypoxanthine	H	H
CF_3	O-amino acid	H	S	5-Fluorouracil	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-Aminoadenine	H	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	H	S	Thymine	H	O-amino acid
CF_3	O-amino acid	H	S	Uracil	H	O-amino acid
CF_3	O-amino acid	H	S	Guanine	H	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	H	S	Adenine	H	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	Thymine	H	O-acyl
CF_3	O-amino acid	H	S	Uracil	H	O-acyl
CF_3	O-amino acid	H	S	Guanine	H	O-acyl
CF_3	O-amino acid	H	S	Cytosine	H	O-acyl
CF_3	O-amino acid	H	S	Adenine	H	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	Thymine	H	OH
CF_3	O-amino acid	H	S	Uracil	H	OH
CF_3	O-amino acid	H	S	Guanine	H	OH
CF_3	O-amino acid	H	S	Cytosine	H	OH
CF_3	O-amino acid	H	S	Adenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	Hypoxanthine	H	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	H	S	Thymine	OH	H
CF_3	O-amino acid	H	S	Uracil	OH	H
CF_3	O-amino acid	H	S	Guanine	OH	H
CF_3	O-amino acid	H	S	Cytosine	OH	H
CF_3	O-amino acid	H	S	Adenine	OH	H
CF_3	O-amino acid	H	S	Hypoxanthine	OH	H
CF_3	O-amino acid	H	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	OH	F	S	Thymine	F	O-amino acid
CF_3	OH	F	S	Uracil	F	O-amino acid
CF_3	OH	F	S	Guanine	F	O-amino acid
CF_3	OH	F	S	Cytosine	F	O-amino acid
CF_3	OH	F	S	Adenine	F	O-amino acid
CF_3	OH	F	S	Hypoxanthine	F	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	F	S	Thymine	F	O-acyl
CF_3	OH	F	S	Uracil	F	O-acyl
CF_3	OH	F	S	Guanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Cytosine	F	O-acyl
CF_3	OH	F	S	Adenine	F	O-acyl
CF_3	OH	F	S	Hypoxanthine	F	O-acyl
CF_3	OH	F	S	5-Fluorouracil	F	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-Aminoadenine	F	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	F	S	Thymine	Br	O-amino acid
CF_3	OH	F	S	Uracil	Br	O-amino acid
CF_3	OH	F	S	Guanine	Br	O-amino acid
CF_3	OH	F	S	Cytosine	Br	O-amino acid
CF_3	OH	F	S	Adenine	Br	O-amino acid
CF_3	OH	F	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	Thymine	Br	O-acyl
CF_3	OH	F	S	Uracil	Br	O-acyl
CF_3	OH	F	S	Guanine	Br	O-acyl
CF_3	OH	F	S	Cytosine	Br	O-acyl
CF_3	OH	F	S	Adenine	Br	O-acyl
CF_3	OH	F	S	Hypoxanthine	Br	O-acyl
CF_3	OH	F	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	F	S	Thymine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Uracil	Cl	O-amino acid
CF_3	OH	F	S	Guanine	Cl	O-amino acid
CF_3	OH	F	S	Cytosine	Cl	O-amino acid
CF_3	OH	F	S	Adenine	Cl	O-amino acid
CF_3	OH	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	Thymine	Cl	O-acyl
CF_3	OH	F	S	Uracil	Cl	O-acyl
CF_3	OH	F	S	Guanine	Cl	O-acyl
CF_3	OH	F	S	Cytosine	Cl	O-acyl
CF_3	OH	F	S	Adenine	Cl	O-acyl
CF_3	OH	F	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-Aminoadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	Thymine	H	O-amino acid
CF_3	OH	F	S	Uracil	H	O-amino acid
CF_3	OH	F	S	Guanine	H	O-amino acid
CF_3	OH	F	S	Cytosine	H	O-amino acid
CF_3	OH	F	S	Adenine	H	O-amino acid
CF_3	OH	F	S	Hypoxanthine	H	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	F	S	Thymine	H	O-acyl
CF_3	OH	F	S	Uracil	H	O-acyl
CF_3	OH	F	S	Guanine	H	O-acyl
CF_3	OH	F	S	Cytosine	H	O-acyl
CF_3	OH	F	S	Adenine	H	O-acyl
CF_3	OH	F	S	Hypoxanthine	H	O-acyl
CF_3	OH	F	S	5-Fluorouracil	H	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-Aminoadenine	H	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Br	S	Thymine	F	O-amino acid
CF_3	OH	Br	S	Uracil	F	O-amino acid
CF_3	OH	Br	S	Guanine	F	O-amino acid
CF_3	OH	Br	S	Cytosine	F	O-amino acid
CF_3	OH	Br	S	Adenine	F	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	F	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	Thymine	F	O-acyl
CF_3	OH	Br	S	Uracil	F	O-acyl
CF_3	OH	Br	S	Guanine	F	O-acyl
CF_3	OH	Br	S	Cytosine	F	O-acyl
CF_3	OH	Br	S	Adenine	F	O-acyl
CF_3	OH	Br	S	Hypoxanthine	F	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	F	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	F	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Br	S	Thymine	Br	O-amino acid
CF_3	OH	Br	S	Uracil	Br	O-amino acid
CF_3	OH	Br	S	Guanine	Br	O-amino acid
CF_3	OH	Br	S	Cytosine	Br	O-amino acid
CF_3	OH	Br	S	Adenine	Br	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	Thymine	Br	O-acyl
CF_3	OH	Br	S	Uracil	Br	O-acyl
CF_3	OH	Br	S	Guanine	Br	O-acyl
CF_3	OH	Br	S	Cytosine	Br	O-acyl
CF_3	OH	Br	S	Adenine	Br	O-acyl
CF_3	OH	Br	S	Hypoxanthine	Br	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	Thymine	Cl	O-amino acid
CF_3	OH	Br	S	Uracil	Cl	O-amino acid
CF_3	OH	Br	S	Guanine	Cl	O-amino acid
CF_3	OH	Br	S	Cytosine	Cl	O-amino acid
CF_3	OH	Br	S	Adenine	Cl	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	Thymine	Cl	O-acyl
CF_3	OH	Br	S	Uracil	Cl	O-acyl
CF_3	OH	Br	S	Guanine	Cl	O-acyl
CF_3	OH	Br	S	Cytosine	Cl	O-acyl
CF_3	OH	Br	S	Adenine	Cl	O-acyl
CF_3	OH	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	Thymine	H	O-amino acid
CF_3	OH	Br	S	Uracil	H	O-amino acid
CF_3	OH	Br	S	Guanine	H	O-amino acid
CF_3	OH	Br	S	Cytosine	H	O-amino acid
CF_3	OH	Br	S	Adenine	H	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	H	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	Thymine	H	O-acyl
CF_3	OH	Br	S	Uracil	H	O-acyl
CF_3	OH	Br	S	Guanine	H	O-acyl
CF_3	OH	Br	S	Cytosine	H	O-acyl
CF_3	OH	Br	S	Adenine	H	O-acyl
CF_3	OH	Br	S	Hypoxanthine	H	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	H	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	H	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	Thymine	F	O-amino acid
CF_3	OH	Cl	S	Uracil	F	O-amino acid
CF_3	OH	Cl	S	Guanine	F	O-amino acid
CF_3	OH	Cl	S	Cytosine	F	O-amino acid
CF_3	OH	Cl	S	Adenine	F	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	Thymine	F	O-acyl
CF_3	OH	Cl	S	Uracil	F	O-acyl
CF_3	OH	Cl	S	Guanine	F	O-acyl
CF_3	OH	Cl	S	Cytosine	F	O-acyl
CF_3	OH	Cl	S	Adenine	F	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	F	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	Thymine	Br	O-amino acid
CF_3	OH	Cl	S	Uracil	Br	O-amino acid
CF_3	OH	Cl	S	Guanine	Br	O-amino acid
CF_3	OH	Cl	S	Cytosine	Br	O-amino acid
CF_3	OH	Cl	S	Adenine	Br	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	Thymine	Br	O-acyl
CF_3	OH	Cl	S	Uracil	Br	O-acyl
CF_3	OH	Cl	S	Guanine	Br	O-acyl
CF_3	OH	Cl	S	Cytosine	Br	O-acyl
CF_3	OH	Cl	S	Adenine	Br	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	Thymine	Cl	O-amino acid
CF_3	OH	Cl	S	Uracil	Cl	O-amino acid
CF_3	OH	Cl	S	Guanine	Cl	O-amino acid
CF_3	OH	Cl	S	Cytosine	Cl	O-amino acid
CF_3	OH	Cl	S	Adenine	Cl	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	Thymine	Cl	O-acyl
CF_3	OH	Cl	S	Uracil	Cl	O-acyl
CF_3	OH	Cl	S	Guanine	Cl	O-acyl
CF_3	OH	Cl	S	Cytosine	Cl	O-acyl
CF_3	OH	Cl	S	Adenine	Cl	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	Thymine	H	O-amino acid
CF_3	OH	Cl	S	Uracil	H	O-amino acid
CF_3	OH	Cl	S	Guanine	H	O-amino acid
CF_3	OH	Cl	S	Cytosine	H	O-amino acid
CF_3	OH	Cl	S	Adenine	H	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	Thymine	H	O-acyl
CF_3	OH	Cl	S	Uracil	H	O-acyl
CF_3	OH	Cl	S	Guanine	H	O-acyl
CF_3	OH	Cl	S	Cytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	Adenine	H	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	H	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	H	S	Thymine	F	O-amino acid
CF_3	OH	H	S	Uracil	F	O-amino acid
CF_3	OH	H	S	Guanine	F	O-amino acid
CF_3	OH	H	S	Cytosine	F	O-amino acid
CF_3	OH	H	S	Adenine	F	O-amino acid
CF_3	OH	H	S	Hypoxanthine	F	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	H	S	Thymine	F	O-acyl
CF_3	OH	H	S	Uracil	F	O-acyl
CF_3	OH	H	S	Guanine	F	O-acyl
CF_3	OH	H	S	Cytosine	F	O-acyl
CF_3	OH	H	S	Adenine	F	O-acyl
CF_3	OH	H	S	Hypoxanthine	F	O-acyl
CF_3	OH	H	S	5-Fluorouracil	F	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-Aminoadenine	F	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	H	S	Thymine	Br	O-amino acid
CF_3	OH	H	S	Uracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	Guanine	Br	O-amino acid
CF_3	OH	H	S	Cytosine	Br	O-amino acid
CF_3	OH	H	S	Adenine	Br	O-amino acid
CF_3	OH	H	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	Thymine	Br	O-acyl
CF_3	OH	H	S	Uracil	Br	O-acyl
CF_3	OH	H	S	Guanine	Br	O-acyl
CF_3	OH	H	S	Cytosine	Br	O-acyl
CF_3	OH	H	S	Adenine	Br	O-acyl
CF_3	OH	H	S	Hypoxanthine	Br	O-acyl
CF_3	OH	H	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	H	S	Thymine	Cl	O-amino acid
CF_3	OH	H	S	Uracil	Cl	O-amino acid
CF_3	OH	H	S	Guanine	Cl	O-amino acid
CF_3	OH	H	S	Cytosine	Cl	O-amino acid
CF_3	OH	H	S	Adenine	Cl	O-amino acid
CF_3	OH	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	Thymine	Cl	O-acyl
CF_3	OH	H	S	Uracil	Cl	O-acyl
CF_3	OH	H	S	Guanine	Cl	O-acyl
CF_3	OH	H	S	Cytosine	Cl	O-acyl
CF_3	OH	H	S	Adenine	Cl	O-acyl
CF_3	OH	H	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	Thymine	H	O-amino acid
CF_3	OH	H	S	Uracil	H	O-amino acid
CF_3	OH	H	S	Guanine	H	O-amino acid
CF_3	OH	H	S	Cytosine	H	O-amino acid
CF_3	OH	H	S	Adenine	H	O-amino acid
CF_3	OH	H	S	Hypoxanthine	H	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	H	S	Thymine	H	O-acyl
CF_3	OH	H	S	Uracil	H	O-acyl
CF_3	OH	H	S	Guanine	H	O-acyl
CF_3	OH	H	S	Cytosine	H	O-acyl
CF_3	OH	H	S	Adenine	H	O-acyl
CF_3	OH	H	S	Hypoxanthine	H	O-acyl
CF_3	OH	H	S	5-Fluorouracil	H	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-Aminoadenine	H	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	F	S	Thymine	F	O-amino acid
CF_3	H	F	S	Uracil	F	O-amino acid
CF_3	H	F	S	Guanine	F	O-amino acid
CF_3	H	F	S	Cytosine	F	O-amino acid
CF_3	H	F	S	Adenine	F	O-amino acid
CF_3	H	F	S	Hypoxanthine	F	O-amino acid
CF_3	H	F	S	5-Fluorouracil	F	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-Aminoadenine	F	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	F	S	Thymine	F	O-acyl
CF_3	H	F	S	Uracil	F	O-acyl
CF_3	H	F	S	Guanine	F	O-acyl
CF_3	H	F	S	Cytosine	F	O-acyl
CF_3	H	F	S	Adenine	F	O-acyl
CF_3	H	F	S	Hypoxanthine	F	O-acyl
CF_3	H	F	S	5-Fluorouracil	F	O-acyl
CF_3	H	F	S	8-Fluoroguanine	F	O-acyl
CF_3	H	F	S	5-Fluorocytosine	F	O-acyl
CF_3	H	F	S	8-Fluoroadenine	F	O-acyl
CF_3	H	F	S	2-Fluoroadenine	F	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-Aminoadenine	F	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	F	S	2-N-acetylguanine	F	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	F	S	6-N-acetyladenine	F	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	F	S	Thymine	Br	O-amino acid
CF_3	H	F	S	Uracil	Br	O-amino acid
CF_3	H	F	S	Guanine	Br	O-amino acid
CF_3	H	F	S	Cytosine	Br	O-amino acid
CF_3	H	F	S	Adenine	Br	O-amino acid
CF_3	H	F	S	Hypoxanthine	Br	O-amino acid
CF_3	H	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	F	S	Thymine	Br	O-acyl
CF_3	H	F	S	Uracil	Br	O-acyl
CF_3	H	F	S	Guanine	Br	O-acyl
CF_3	H	F	S	Cytosine	Br	O-acyl
CF_3	H	F	S	Adenine	Br	O-acyl
CF_3	H	F	S	Hypoxanthine	Br	O-acyl
CF_3	H	F	S	5-Fluorouracil	Br	O-acyl
CF_3	H	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-Aminoadenine	Br	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	F	S	Thymine	Cl	O-amino acid
CF_3	H	F	S	Uracil	Cl	O-amino acid
CF_3	H	F	S	Guanine	Cl	O-amino acid
CF_3	H	F	S	Cytosine	Cl	O-amino acid
CF_3	H	F	S	Adenine	Cl	O-amino acid
CF_3	H	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	Thymine	Cl	O-acyl
CF_3	H	F	S	Uracil	Cl	O-acyl
CF_3	H	F	S	Guanine	Cl	O-acyl
CF_3	H	F	S	Cytosine	Cl	O-acyl
CF_3	H	F	S	Adenine	Cl	O-acyl
CF_3	H	F	S	Hypoxanthine	Cl	O-acyl
CF_3	H	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	F	S	Thymine	H	O-amino acid
CF_3	H	F	S	Uracil	H	O-amino acid
CF_3	H	F	S	Guanine	H	O-amino acid
CF_3	H	F	S	Cytosine	H	O-amino acid
CF_3	H	F	S	Adenine	H	O-amino acid
CF_3	H	F	S	Hypoxanthine	H	O-amino acid
CF_3	H	F	S	5-Fluorouracil	H	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-Aminoadenine	H	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	F	S	Thymine	H	O-acyl
CF_3	H	F	S	Uracil	H	O-acyl
CF_3	H	F	S	Guanine	H	O-acyl
CF_3	H	F	S	Cytosine	H	O-acyl
CF_3	H	F	S	Adenine	H	O-acyl
CF_3	H	F	S	Hypoxanthine	H	O-acyl
CF_3	H	F	S	5-Fluorouracil	H	O-acyl
CF_3	H	F	S	8-Fluoroguanine	H	O-acyl
CF_3	H	F	S	5-Fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	8-Fluoroadenine	H	O-acyl
CF_3	H	F	S	2-Fluoroadenine	H	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-Aminoadenine	H	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	F	S	2-N-acetylguanine	H	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	F	S	6-N-acetyladenine	H	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Br	S	Thymine	F	O-amino acid
CF_3	H	Br	S	Uracil	F	O-amino acid
CF_3	H	Br	S	Guanine	F	O-amino acid
CF_3	H	Br	S	Cytosine	F	O-amino acid
CF_3	H	Br	S	Adenine	F	O-amino acid
CF_3	H	Br	S	Hypoxanthine	F	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Br	S	Thymine	F	O-acyl
CF_3	H	Br	S	Uracil	F	O-acyl
CF_3	H	Br	S	Guanine	F	O-acyl
CF_3	H	Br	S	Cytosine	F	O-acyl
CF_3	H	Br	S	Adenine	F	O-acyl
CF_3	H	Br	S	Hypoxanthine	F	O-acyl
CF_3	H	Br	S	5-Fluorouracil	F	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-Aminoadenine	F	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Br	S	Thymine	Br	O-amino acid
CF_3	H	Br	S	Uracil	Br	O-amino acid
CF_3	H	Br	S	Guanine	Br	O-amino acid
CF_3	H	Br	S	Cytosine	Br	O-amino acid
CF_3	H	Br	S	Adenine	Br	O-amino acid
CF_3	H	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	Thymine	Br	O-acyl
CF_3	H	Br	S	Uracil	Br	O-acyl
CF_3	H	Br	S	Guanine	Br	O-acyl
CF_3	H	Br	S	Cytosine	Br	O-acyl
CF_3	H	Br	S	Adenine	Br	O-acyl
CF_3	H	Br	S	Hypoxanthine	Br	O-acyl
CF_3	H	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Br	S	Thymine	Cl	O-amino acid
CF_3	H	Br	S	Uracil	Cl	O-amino acid
CF_3	H	Br	S	Guanine	Cl	O-amino acid
CF_3	H	Br	S	Cytosine	Cl	O-amino acid
CF_3	H	Br	S	Adenine	Cl	O-amino acid
CF_3	H	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	Thymine	Cl	O-acyl
CF_3	H	Br	S	Uracil	Cl	O-acyl
CF_3	H	Br	S	Guanine	Cl	O-acyl
CF_3	H	Br	S	Cytosine	Cl	O-acyl
CF_3	H	Br	S	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	H	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	Thymine	H	O-amino acid
CF_3	H	Br	S	Uracil	H	O-amino acid
CF_3	H	Br	S	Guanine	H	O-amino acid
CF_3	H	Br	S	Cytosine	H	O-amino acid
CF_3	H	Br	S	Adenine	H	O-amino acid
CF_3	H	Br	S	Hypoxanthine	H	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Br	S	Thymine	H	O-acyl
CF_3	H	Br	S	Uracil	H	O-acyl
CF_3	H	Br	S	Guanine	H	O-acyl
CF_3	H	Br	S	Cytosine	H	O-acyl
CF_3	H	Br	S	Adenine	H	O-acyl
CF_3	H	Br	S	Hypoxanthine	H	O-acyl
CF_3	H	Br	S	5-Fluorouracil	H	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-Aminoadenine	H	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Cl	S	Thymine	F	O-amino acid
CF_3	H	Cl	S	Uracil	F	O-amino acid
CF_3	H	Cl	S	Guanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Cytosine	F	O-amino acid
CF_3	H	Cl	S	Adenine	F	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	Thymine	F	O-acyl
CF_3	H	Cl	S	Uracil	F	O-acyl
CF_3	H	Cl	S	Guanine	F	O-acyl
CF_3	H	Cl	S	Cytosine	F	O-acyl
CF_3	H	Cl	S	Adenine	F	O-acyl
CF_3	H	Cl	S	Hypoxanthine	F	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Cl	S	Thymine	Br	O-amino acid
CF_3	H	Cl	S	Uracil	Br	O-amino acid
CF_3	H	Cl	S	Guanine	Br	O-amino acid
CF_3	H	Cl	S	Cytosine	Br	O-amino acid
CF_3	H	Cl	S	Adenine	Br	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	Thymine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Uracil	Br	O-acyl
CF_3	H	Cl	S	Guanine	Br	O-acyl
CF_3	H	Cl	S	Cytosine	Br	O-acyl
CF_3	H	Cl	S	Adenine	Br	O-acyl
CF_3	H	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	Thymine	Cl	O-amino acid
CF_3	H	Cl	S	Uracil	Cl	O-amino acid
CF_3	H	Cl	S	Guanine	Cl	O-amino acid
CF_3	H	Cl	S	Cytosine	Cl	O-amino acid
CF_3	H	Cl	S	Adenine	Cl	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	Thymine	Cl	O-acyl
CF_3	H	Cl	S	Uracil	Cl	O-acyl
CF_3	H	Cl	S	Guanine	Cl	O-acyl
CF_3	H	Cl	S	Cytosine	Cl	O-acyl
CF_3	H	Cl	S	Adenine	Cl	O-acyl
CF_3	H	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	Thymine	H	O-amino acid
CF_3	H	Cl	S	Uracil	H	O-amino acid
CF_3	H	Cl	S	Guanine	H	O-amino acid
CF_3	H	Cl	S	Cytosine	H	O-amino acid
CF_3	H	Cl	S	Adenine	H	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	Thymine	H	O-acyl
CF_3	H	Cl	S	Uracil	H	O-acyl
CF_3	H	Cl	S	Guanine	H	O-acyl
CF_3	H	Cl	S	Cytosine	H	O-acyl
CF_3	H	Cl	S	Adenine	H	O-acyl
CF_3	H	Cl	S	Hypoxanthine	H	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	H	S	Thymine	F	O-amino acid
CF_3	H	H	S	Uracil	F	O-amino acid
CF_3	H	H	S	Guanine	F	O-amino acid
CF_3	H	H	S	Cytosine	F	O-amino acid
CF_3	H	H	S	Adenine	F	O-amino acid
CF_3	H	H	S	Hypoxanthine	F	O-amino acid
CF_3	H	H	S	5-Fluorouracil	F	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-Aminoadenine	F	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	H	S	Thymine	F	O-acyl
CF_3	H	H	S	Uracil	F	O-acyl
CF_3	H	H	S	Guanine	F	O-acyl
CF_3	H	H	S	Cytosine	F	O-acyl
CF_3	H	H	S	Adenine	F	O-acyl
CF_3	H	H	S	Hypoxanthine	F	O-acyl
CF_3	H	H	S	5-Fluorouracil	F	O-acyl
CF_3	H	H	S	8-Fluoroguanine	F	O-acyl
CF_3	H	H	S	5-Fluorocytosine	F	O-acyl
CF_3	H	H	S	8-Fluoroadenine	F	O-acyl
CF_3	H	H	S	2-Fluoroadenine	F	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-Aminoadenine	F	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	H	S	2-N-acetylguanine	F	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	H	S	6-N-acetyladenine	F	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	H	S	Thymine	Br	O-amino acid
CF_3	H	H	S	Uracil	Br	O-amino acid
CF_3	H	H	S	Guanine	Br	O-amino acid
CF_3	H	H	S	Cytosine	Br	O-amino acid
CF_3	H	H	S	Adenine	Br	O-amino acid
CF_3	H	H	S	Hypoxanthine	Br	O-amino acid
CF_3	H	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	H	S	Thymine	Br	O-acyl
CF_3	H	H	S	Uracil	Br	O-acyl
CF_3	H	H	S	Guanine	Br	O-acyl
CF_3	H	H	S	Cytosine	Br	O-acyl
CF_3	H	H	S	Adenine	Br	O-acyl
CF_3	H	H	S	Hypoxanthine	Br	O-acyl
CF_3	H	H	S	5-Fluorouracil	Br	O-acyl
CF_3	H	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-Aminoadenine	Br	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	H	S	Thymine	Cl	O-amino acid
CF_3	H	H	S	Uracil	Cl	O-amino acid
CF_3	H	H	S	Guanine	Cl	O-amino acid
CF_3	H	H	S	Cytosine	Cl	O-amino acid
CF_3	H	H	S	Adenine	Cl	O-amino acid
CF_3	H	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	Thymine	Cl	O-acyl
CF_3	H	H	S	Uracil	Cl	O-acyl
CF_3	H	H	S	Guanine	Cl	O-acyl
CF_3	H	H	S	Cytosine	Cl	O-acyl
CF_3	H	H	S	Adenine	Cl	O-acyl
CF_3	H	H	S	Hypoxanthine	Cl	O-acyl
CF_3	H	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	H	S	8-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	H	S	Thymine	H	O-amino acid
CF_3	H	H	S	Uracil	H	O-amino acid
CF_3	H	H	S	Guanine	H	O-amino acid
CF_3	H	H	S	Cytosine	H	O-amino acid
CF_3	H	H	S	Adenine	H	O-amino acid
CF_3	H	H	S	Hypoxanthine	H	O-amino acid
CF_3	H	H	S	5-Fluorouracil	H	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-Aminoadenine	H	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	H	S	Thymine	H	O-acyl
CF_3	H	H	S	Uracil	H	O-acyl
CF_3	H	H	S	Guanine	H	O-acyl
CF_3	H	H	S	Cytosine	H	O-acyl
CF_3	H	H	S	Adenine	H	O-acyl
CF_3	H	H	S	Hypoxanthine	H	O-acyl
CF_3	H	H	S	5-Fluorouracil	H	O-acyl
CF_3	H	H	S	8-Fluoroguanine	H	O-acyl
CF_3	H	H	S	5-Fluorocytosine	H	O-acyl
CF_3	H	H	S	8-Fluoroadenine	H	O-acyl
CF_3	H	H	S	2-Fluoroadenine	H	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-Aminoadenine	H	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	H	S	2-N-acetylguanine	H	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	H	S	6-N-acetyladenine	H	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	OH	S	Thymine	F	O-amino acid
CF_3	H	OH	S	Uracil	F	O-amino acid
CF_3	H	OH	S	Guanine	F	O-amino acid
CF_3	H	OH	S	Cytosine	F	O-amino acid
CF_3	H	OH	S	Adenine	F	O-amino acid
CF_3	H	OH	S	Hypoxanthine	F	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	F	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	F	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	OH	S	Thymine	F	O-acyl
CF_3	H	OH	S	Uracil	F	O-acyl
CF_3	H	OH	S	Guanine	F	O-acyl
CF_3	H	OH	S	Cytosine	F	O-acyl
CF_3	H	OH	S	Adenine	F	O-acyl
CF_3	H	OH	S	Hypoxanthine	F	O-acyl
CF_3	H	OH	S	5-Fluorouracil	F	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	F	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	F	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	F	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-Aminoadenine	F	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	F	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	F	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	OH	S	Thymine	Br	O-amino acid
CF_3	H	OH	S	Uracil	Br	O-amino acid
CF_3	H	OH	S	Guanine	Br	O-amino acid
CF_3	H	OH	S	Cytosine	Br	O-amino acid
CF_3	H	OH	S	Adenine	Br	O-amino acid
CF_3	H	OH	S	Hypoxanthine	Br	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	Thymine	Br	O-acyl
CF_3	H	OH	S	Uracil	Br	O-acyl
CF_3	H	OH	S	Guanine	Br	O-acyl
CF_3	H	OH	S	Cytosine	Br	O-acyl
CF_3	H	OH	S	Adenine	Br	O-acyl
CF_3	H	OH	S	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	5-Fluorouracil	Br	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-Aminoadenine	Br	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	OH	S	Thymine	Cl	O-amino acid
CF_3	H	OH	S	Uracil	Cl	O-amino acid
CF_3	H	OH	S	Guanine	Cl	O-amino acid
CF_3	H	OH	S	Cytosine	Cl	O-amino acid
CF_3	H	OH	S	Adenine	Cl	O-amino acid
CF_3	H	OH	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	Thymine	Cl	O-acyl
CF_3	H	OH	S	Uracil	Cl	O-acyl
CF_3	H	OH	S	Guanine	Cl	O-acyl
CF_3	H	OH	S	Cytosine	Cl	O-acyl
CF_3	H	OH	S	Adenine	Cl	O-acyl
CF_3	H	OH	S	Hypoxanthine	Cl	O-acyl
CF_3	H	OH	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	Thymine	H	O-amino acid
CF_3	H	OH	S	Uracil	H	O-amino acid
CF_3	H	OH	S	Guanine	H	O-amino acid
CF_3	H	OH	S	Cytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	Adenine	H	O-amino acid
CF_3	H	OH	S	Hypoxanthine	H	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	H	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	H	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	OH	S	Thymine	H	O-acyl
CF_3	H	OH	S	Uracil	H	O-acyl
CF_3	H	OH	S	Guanine	H	O-acyl
CF_3	H	OH	S	Cytosine	H	O-acyl
CF_3	H	OH	S	Adenine	H	O-acyl
CF_3	H	OH	S	Hypoxanthine	H	O-acyl
CF_3	H	OH	S	5-Fluorouracil	H	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	H	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	H	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	H	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-Aminoadenine	H	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	2-N-acetylguanine	H	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	H	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl

Table 7

R^2	R^3	X^1	X^2	Y
acyl	H	H	H	H
acyl	H	H	H	NH_2
acyl	H	H	H	NH-cyclopropyl
acyl	H	H	H	NH-methyl
acyl	H	H	H	NH-ethyl
acyl	H	H	H	NH-acetyl
acyl	H	H	H	OH
acyl	H	H	H	OMe
acyl	H	H	H	OEt
acyl	H	H	H	O-cyclopropyl
acyl	H	H	H	O-acetyl
acyl	H	H	H	SH
acyl	H	H	H	SMe
acyl	H	H	H	SEt
acyl	H	H	H	S-cyclopropyl
acyl	H	H	H	F
acyl	H	H	H	Cl
acyl	H	H	H	Br
acyl	H	H	H	I
acyl	acyl	H	H	H
acyl	acyl	H	H	NH_2
acyl	acyl	H	H	NH-cyclopropyl
acyl	acyl	H	H	NH-methyl
acyl	acyl	H	H	NH-ethyl
acyl	acyl	H	H	NH-acetyl
acyl	acyl	H	H	OH
acyl	acyl	H	H	OMe
acyl	acyl	H	H	OEt
acyl	acyl	H	H	O-cyclopropyl
acyl	acyl	H	H	O-acetyl
acyl	acyl	H	H	SH
acyl	acyl	H	H	SMe
acyl	acyl	H	H	SEt
acyl	acyl	H	H	S-cyclopropyl
acyl	acyl	H	H	F
acyl	acyl	H	H	Cl
acyl	acyl	H	H	Br
acyl	acyl	H	H	I
acyl	amino acid	H	H	H
acyl	amino acid	H	H	NH_2
acyl	amino acid	H	H	NH-cyclopropyl
acyl	amino acid	H	H	NH-methyl
acyl	amino acid	H	H	NH-ethyl
acyl	amino acid	H	H	NH-acetyl
acyl	amino acid	H	H	OH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	H	OMe
acyl	amino acid	H	H	OEt
acyl	amino acid	H	H	O-cyclopropyl
acyl	amino acid	H	H	O-acetyl
acyl	amino acid	H	H	SH
acyl	amino acid	H	H	SMe
acyl	amino acid	H	H	SEt
acyl	amino acid	H	H	S-cyclopropyl
acyl	amino acid	H	H	F
acyl	amino acid	H	H	Cl
acyl	amino acid	H	H	Br
acyl	amino acid	H	H	I
H	acyl	H	H	H
H	acyl	H	H	NH_2
H	acyl	H	H	NH-cyclopropyl
H	acyl	H	H	NH-methyl
H	acyl	H	H	NH-ethyl
H	acyl	H	H	NH-acetyl
H	acyl	H	H	OH
H	acyl	H	H	OMe
H	acyl	H	H	OEt
H	acyl	H	H	O-cyclopropyl
H	acyl	H	H	O-acetyl
H	acyl	H	H	SH
H	acyl	H	H	SMe
H	acyl	H	H	SEt
H	acyl	H	H	S-cyclopropyl
H	acyl	H	H	F
H	acyl	H	H	Cl
H	acyl	H	H	Br
H	acyl	H	H	I
H	amino acid	H	H	H
H	amino acid	H	H	NH_2
H	amino acid	H	H	NH-cyclopropyl
H	amino acid	H	H	NH-methyl
H	amino acid	H	H	NH-ethyl
H	amino acid	H	H	NH-acetyl
H	amino acid	H	H	OH
H	amino acid	H	H	OMe
H	amino acid	H	H	OEt
H	amino acid	H	H	O-cyclopropyl
H	amino acid	H	H	O-acetyl
H	amino acid	H	H	SH
H	amino acid	H	H	SMe
H	amino acid	H	H	SEt
H	amino acid	H	H	S-cyclopropyl
H	amino acid	H	H	F

R^2	R^3	X^1	X^2	Y
H	amino acid	H	H	Cl
H	amino acid	H	H	Br
H	amino acid	H	H	I
amino acid	amino acid	H	H	H
amino acid	amino acid	H	H	NH_2
amino acid	amino acid	H	H	NH-cyclopropyl
amino acid	amino acid	H	H	NH-methyl
amino acid	amino acid	H	H	NH-ethyl
amino acid	amino acid	H	H	NH-acetyl
amino acid	amino acid	H	H	OH
amino acid	amino acid	H	H	OMe
amino acid	amino acid	H	H	OEt
amino acid	amino acid	H	H	O-cyclopropyl
amino acid	amino acid	H	H	O-acetyl
amino acid	amino acid	H	H	SH
amino acid	amino acid	H	H	SMe
amino acid	amino acid	H	H	SEt
amino acid	amino acid	H	H	S-cyclopropyl
amino acid	amino acid	H	H	F
amino acid	amino acid	H	H	Cl
amino acid	amino acid	H	H	Br
amino acid	amino acid	H	H	I
amino acid	H	H	H	H
amino acid	H	H	H	NH_2
amino acid	H	H	H	NH-cyclopropyl
amino acid	H	H	H	NH-methyl
amino acid	H	H	H	NH-ethyl
amino acid	H	H	H	NH-acetyl
amino acid	H	H	H	OH
amino acid	H	H	H	OMe
amino acid	H	H	H	OEt
amino acid	H	H	H	O-cyclopropyl
amino acid	H	H	H	O-acetyl
amino acid	H	H	H	SH
amino acid	H	H	H	SMe
amino acid	H	H	H	SEt
amino acid	H	H	H	S-cyclopropyl
amino acid	H	H	H	F
amino acid	H	H	H	Cl
amino acid	H	H	H	Br
amino acid	H	H	H	I
amino acid	acyl	H	H	H
amino acid	acyl	H	H	NH_2
amino acid	acyl	H	H	NH-cyclopropyl
amino acid	acyl	H	H	NH-methyl
amino acid	acyl	H	H	NH-ethyl
amino acid	acyl	H	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	H	OH
amino acid	acyl	H	H	OMe
amino acid	acyl	H	H	OEt
amino acid	acyl	H	H	O-cyclopropyl
amino acid	acyl	H	H	O-acetyl
amino acid	acyl	H	H	SH
amino acid	acyl	H	H	SMe
amino acid	acyl	H	H	SEt
amino acid	acyl	H	H	S-cyclopropyl
amino acid	acyl	H	H	F
amino acid	acyl	H	H	Cl
amino acid	acyl	H	H	Br
amino acid	acyl	H	H	I
acyl	H	F	H	H
acyl	H	F	H	NH_2
acyl	H	F	H	NH-cyclopropyl
acyl	H	F	H	NH-methyl
acyl	H	F	H	NH-ethyl
acyl	H	F	H	NH-acetyl
acyl	H	F	H	OH
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	H	F	H	O-cyclopropyl
acyl	H	F	H	O-acetyl
acyl	H	F	H	SH
acyl	H	F	H	SMe
acyl	H	F	H	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	H
acyl	acyl	F	H	NH_2
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	H	NH-methyl
acyl	acyl	F	H	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	OH
acyl	acyl	F	H	OMe
acyl	acyl	F	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	H	O-acetyl
acyl	acyl	F	H	SH
acyl	acyl	F	H	SMe
acyl	acyl	F	H	SEt
acyl	acyl	F	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	H	F
acyl	acyl	F	H	Cl
acyl	acyl	F	H	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	H
acyl	amino acid	F	H	NH_2
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	H	NH-acetyl
acyl	amino acid	F	H	OH
acyl	amino acid	F	H	OMe
acyl	amino acid	F	H	OEt
acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	H	SEt
acyl	amino acid	F	H	S-cyclopropyl
acyl	amino acid	F	H	F
acyl	amino acid	F	H	Cl
acyl	amino acid	F	H	Br
acyl	amino acid	F	H	I
H	acyl	F	H	H
H	acyl	F	H	NH_2
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	H	NH-methyl
H	acyl	F	H	NH-ethyl
H	acyl	F	H	NH-acetyl
H	acyl	F	H	OH
H	acyl	F	H	OMe
H	acyl	F	H	OEt
H	acyl	F	H	O-cyclopropyl
H	acyl	F	H	O-acetyl
H	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
H	acyl	F	H	S-cyclopropyl
H	acyl	F	H	F
H	acyl	F	H	Cl
H	acyl	F	H	Br
H	acyl	F	H	I
H	amino acid	F	H	H
H	amino acid	F	H	NH_2
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl
H	amino acid	F	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
H	amino acid	F	H	OMe
H	amino acid	F	H	OEt
H	amino acid	F	H	O-cyclopropyl
H	amino acid	F	H	O-acetyl
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
H	amino acid	F	H	S-cyclopropyl
H	amino acid	F	H	F
H	amino acid	F	H	Cl
H	amino acid	F	H	Br
H	amino acid	F	H	I
amino acid	amino acid	F	H	H
amino acid	amino acid	F	H	NH_2
amino acid	amino acid	F	H	NH-cyclopropyl
amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	H	NH-acetyl
amino acid	amino acid	F	H	OH
amino acid	amino acid	F	H	OMe
amino acid	amino acid	F	H	OEt
amino acid	amino acid	F	H	O-cyclopropyl
amino acid	amino acid	F	H	O-acetyl
amino acid	amino acid	F	H	SH
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	H	SEt
amino acid	amino acid	F	H	S-cyclopropyl
amino acid	amino acid	F	H	F
amino acid	amino acid	F	H	Cl
amino acid	amino acid	F	H	Br
amino acid	amino acid	F	H	I
amino acid	H	F	H	H
amino acid	H	F	H	NH_2
amino acid	H	F	H	NH-cyclopropyl
amino acid	H	F	H	NH-methyl
amino acid	H	F	H	NH-ethyl
amino acid	H	F	H	NH-acetyl
amino acid	H	F	H	OH
amino acid	H	F	H	OMe
amino acid	H	F	H	OEt
amino acid	H	F	H	O-cyclopropyl
amino acid	H	F	H	O-acetyl
amino acid	H	F	H	SH
amino acid	H	F	H	SMe
amino acid	H	F	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	H	F	H	S-cyclopropyl
amino acid	H	F	H	F
amino acid	H	F	H	Cl
amino acid	H	F	H	Br
amino acid	H	F	H	I
amino acid	acyl	F	H	H
amino acid	acyl	F	H	NH_2
amino acid	acyl	F	H	NH-cyclopropyl
amino acid	acyl	F	H	NH-methyl
amino acid	acyl	F	H	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	H	OH
amino acid	acyl	F	H	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	H	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	H	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
amino acid	acyl	F	H	I
acyl	H	H	F	H
acyl	H	H	F	NH_2
acyl	H	H	F	NH-cyclopropyl
acyl	H	H	F	NH-methyl
acyl	H	H	F	NH-ethyl
acyl	H	H	F	NH-acetyl
acyl	H	H	F	OH
acyl	H	H	F	OMe
acyl	H	H	F	OEt
acyl	H	H	F	O-cyclopropyl
acyl	H	H	F	O-acetyl
acyl	H	H	F	SH
acyl	H	H	F	SMe
acyl	H	H	F	SEt
acyl	H	H	F	S-cyclopropyl
acyl	H	H	F	F
acyl	H	H	F	Cl
acyl	H	H	F	Br
acyl	H	H	F	I
acyl	acyl	H	F	H
acyl	acyl	H	F	NH_2
acyl	acyl	H	F	NH-cyclopropyl
acyl	acyl	H	F	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	F	NH-ethyl
acyl	acyl	H	F	NH-acetyl
acyl	acyl	H	F	OH
acyl	acyl	H	F	OMe
acyl	acyl	H	F	OEt
acyl	acyl	H	F	O-cyclopropyl
acyl	acyl	H	F	O-acetyl
acyl	acyl	H	F	SH
acyl	acyl	H	F	SMe
acyl	acyl	H	F	SEt
acyl	acyl	H	F	S-cyclopropyl
acyl	acyl	H	F	F
acyl	acyl	H	F	Cl
acyl	acyl	H	F	Br
acyl	acyl	H	F	I
acyl	amino acid	H	F	H
acyl	amino acid	H	F	NH_2
acyl	amino acid	H	F	NH-cyclopropyl
acyl	amino acid	H	F	NH-methyl
acyl	amino acid	H	F	NH-ethyl
acyl	amino acid	H	F	NH-acetyl
acyl	amino acid	H	F	OH
acyl	amino acid	H	F	OMe
acyl	amino acid	H	F	OEt
acyl	amino acid	H	F	O-cyclopropyl
acyl	amino acid	H	F	O-acetyl
acyl	amino acid	H	F	SH
acyl	amino acid	H	F	SMe
acyl	amino acid	H	F	SEt
acyl	amino acid	H	F	S-cyclopropyl
acyl	amino acid	H	F	F
acyl	amino acid	H	F	Cl
acyl	amino acid	H	F	Br
acyl	amino acid	H	F	I
H	acyl	H	F	H
H	acyl	H	F	NH_2
H	acyl	H	F	NH-cyclopropyl
H	acyl	H	F	NH-methyl
H	acyl	H	F	NH-ethyl
H	acyl	H	F	NH-acetyl
H	acyl	H	F	OH
H	acyl	H	F	OMe
H	acyl	H	F	OEt
H	acyl	H	F	O-cyclopropyl
H	acyl	H	F	O-acetyl
H	acyl	H	F	SH
H	acyl	H	F	SMe

R^2	R^3	X^1	X^2	Y
H	acyl	H	F	SEt
H	acyl	H	F	S-cyclopropyl
H	acyl	H	F	F
H	acyl	H	F	Cl
H	acyl	H	F	Br
H	acyl	H	F	I
H	amino acid	H	F	H
H	amino acid	H	F	NH_2
H	amino acid	H	F	NH-cyclopropyl
H	amino acid	H	F	NH-methyl
H	amino acid	H	F	NH-ethyl
H	amino acid	H	F	NH-acetyl
H	amino acid	H	F	OH
H	amino acid	H	F	OMe
H	amino acid	H	F	OEt
H	amino acid	H	F	O-cyclopropyl
H	amino acid	H	F	O-acetyl
H	amino acid	H	F	SH
H	amino acid	H	F	SMe
H	amino acid	H	F	SEt
H	amino acid	H	F	S-cyclopropyl
H	amino acid	H	F	F
H	amino acid	H	F	Cl
H	amino acid	H	F	Br
H	amino acid	H	F	I
amino acid	amino acid	H	F	H
amino acid	amino acid	H	F	NH_2
amino acid	amino acid	H	F	NH-cyclopropyl
amino acid	amino acid	H	F	NH-methyl
amino acid	amino acid	H	F	NH-ethyl
amino acid	amino acid	H	F	NH-acetyl
amino acid	amino acid	H	F	OH
amino acid	amino acid	H	F	OMe
amino acid	amino acid	H	F	OEt
amino acid	amino acid	H	F	O-cyclopropyl
amino acid	amino acid	H	F	O-acetyl
amino acid	amino acid	H	F	SH
amino acid	amino acid	H	F	SMe
amino acid	amino acid	H	F	SEt
amino acid	amino acid	H	F	S-cyclopropyl
amino acid	amino acid	H	F	F
amino acid	amino acid	H	F	Cl
amino acid	amino acid	H	F	Br
amino acid	amino acid	H	F	I
amino acid	H	H	F	H
amino acid	H	H	F	NH_2
amino acid	H	H	F	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	F	NH-methyl
amino acid	H	H	F	NH-ethyl
amino acid	H	H	F	NH-acetyl
amino acid	H	H	F	OH
amino acid	H	H	F	OMe
amino acid	H	H	F	OEt
amino acid	H	H	F	O-cyclopropyl
amino acid	H	H	F	O-acetyl
amino acid	H	H	F	SH
amino acid	H	H	F	SMe
amino acid	H	H	F	SEt
amino acid	H	H	F	S-cyclopropyl
amino acid	H	H	F	F
amino acid	H	H	F	Cl
amino acid	H	H	F	Br
amino acid	H	H	F	I
amino acid	acyl	H	F	H
amino acid	acyl	H	F	NH_2
amino acid	acyl	H	F	NH-cyclopropyl
amino acid	acyl	H	F	NH-methyl
amino acid	acyl	H	F	NH-ethyl
amino acid	acyl	H	F	NH-acetyl
amino acid	acyl	H	F	OH
amino acid	acyl	H	F	OMe
amino acid	acyl	H	F	OEt
amino acid	acyl	H	F	O-cyclopropyl
amino acid	acyl	H	F	O-acetyl
amino acid	acyl	H	F	SH
amino acid	acyl	H	F	SMe
amino acid	acyl	H	F	SEt
amino acid	acyl	H	F	S-cyclopropyl
amino acid	acyl	H	F	F
amino acid	acyl	H	F	Cl
amino acid	acyl	H	F	Br
amino acid	acyl	H	F	I
acyl	H	NH_2	H	H
acyl	H	NH_2	H	NH_2
acyl	H	NH_2	H	NH-cyclopropyl
acyl	H	NH_2	H	NH-methyl
acyl	H	NH_2	H	NH-ethyl
acyl	H	NH_2	H	NH-acetyl
acyl	H	NH_2	H	OH
acyl	H	NH_2	H	OMe
acyl	H	NH_2	H	OEt
acyl	H	NH_2	H	O-cyclopropyl
acyl	H	NH_2	H	O-acetyl
acyl	H	NH_2	H	SH

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	H	SMe
acyl	H	NH_2	H	SEt
acyl	H	NH_2	H	S-cyclopropyl
acyl	H	NH_2	H	F
acyl	H	NH_2	H	Cl
acyl	H	NH_2	H	Br
acyl	H	NH_2	H	I
acyl	acyl	NH_2	H	H
acyl	acyl	NH_2	H	NH_2
acyl	acyl	NH_2	H	NH-cyclopropyl
acyl	acyl	NH_2	H	NH-methyl
acyl	acyl	NH_2	H	NH-ethyl
acyl	acyl	NH_2	H	NH-acetyl
acyl	acyl	NH_2	H	OH
acyl	acyl	NH_2	H	OMe
acyl	acyl	NH_2	H	OEt
acyl	acyl	NH_2	H	O-cyclopropyl
acyl	acyl	NH_2	H	O-acetyl
acyl	acyl	NH_2	H	SH
acyl	acyl	NH_2	H	SMe
acyl	acyl	NH_2	H	SEt
acyl	acyl	NH_2	H	S-cyclopropyl
acyl	acyl	NH_2	H	F
acyl	acyl	NH_2	H	Cl
acyl	acyl	NH_2	H	Br
acyl	acyl	NH_2	H	I
acyl	amino acid	NH_2	H	H
acyl	amino acid	NH_2	H	NH_2
acyl	amino acid	NH_2	H	NH-cyclopropyl
acyl	amino acid	NH_2	H	NH-methyl
acyl	amino acid	NH_2	H	NH-ethyl
acyl	amino acid	NH_2	H	NH-acetyl
acyl	amino acid	NH_2	H	OH
acyl	amino acid	NH_2	H	OMe
acyl	amino acid	NH_2	H	OEt
acyl	amino acid	NH_2	H	O-cyclopropyl
acyl	amino acid	NH_2	H	O-acetyl
acyl	amino acid	NH_2	H	SH
acyl	amino acid	NH_2	H	SMe
acyl	amino acid	NH_2	H	SEt
acyl	amino acid	NH_2	H	S-cyclopropyl
acyl	amino acid	NH_2	H	F
acyl	amino acid	NH_2	H	Cl
acyl	amino acid	NH_2	H	Br
acyl	amino acid	NH_2	H	I
H	acyl	NH_2	H	H
H	acyl	NH_2	H	NH_2

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	H	NH-cyclopropyl
H	acyl	NH_2	H	NH-methyl
H	acyl	NH_2	H	NH-ethyl
H	acyl	NH_2	H	NH-acetyl
H	acyl	NH_2	H	OH
H	acyl	NH_2	H	OMe
H	acyl	NH_2	H	OEt
H	acyl	NH_2	H	O-cyclopropyl
H	acyl	NH_2	H	O-acetyl
H	acyl	NH_2	H	SH
H	acyl	NH_2	H	SMe
H	acyl	NH_2	H	SEt
H	acyl	NH_2	H	S-cyclopropyl
H	acyl	NH_2	H	F
H	acyl	NH_2	H	Cl
H	acyl	NH_2	H	Br
H	acyl	NH_2	H	I
H	amino acid	NH_2	H	H
H	amino acid	NH_2	H	NH_2
H	amino acid	NH_2	H	NH-cyclopropyl
H	amino acid	NH_2	H	NH-methyl
H	amino acid	NH_2	H	NH-ethyl
H	amino acid	NH_2	H	NH-acetyl
H	amino acid	NH_2	H	OH
H	amino acid	NH_2	H	OMe
H	amino acid	NH_2	H	OEt
H	amino acid	NH_2	H	O-cyclopropyl
H	amino acid	NH_2	H	O-acetyl
H	amino acid	NH_2	H	SH
H	amino acid	NH_2	H	SMe
H	amino acid	NH_2	H	SEt
H	amino acid	NH_2	H	S-cyclopropyl
H	amino acid	NH_2	H	F
H	amino acid	NH_2	H	Cl
H	amino acid	NH_2	H	Br
H	amino acid	NH_2	H	I
amino acid	amino acid	NH_2	H	H
amino acid	amino acid	NH_2	H	NH_2
amino acid	amino acid	NH_2	H	NH-cyclopropyl
amino acid	amino acid	NH_2	H	NH-methyl
amino acid	amino acid	NH_2	H	NH-ethyl
amino acid	amino acid	NH_2	H	NH-acetyl
amino acid	amino acid	NH_2	H	OH
amino acid	amino acid	NH_2	H	OMe
amino acid	amino acid	NH_2	H	OEt
amino acid	amino acid	NH_2	H	O-cyclopropyl
amino acid	amino acid	NH_2	H	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	H	SH
amino acid	amino acid	NH_2	H	SMe
amino acid	amino acid	NH_2	H	SEt
amino acid	amino acid	NH_2	H	S-cyclopropyl
amino acid	amino acid	NH_2	H	F
amino acid	amino acid	NH_2	H	Cl
amino acid	amino acid	NH_2	H	Br
amino acid	amino acid	NH_2	H	I
amino acid	H	NH_2	H	H
amino acid	H	NH_2	H	NH_2
amino acid	H	NH_2	H	NH-cyclopropyl
amino acid	H	NH_2	H	NH-methyl
amino acid	H	NH_2	H	NH-ethyl
amino acid	H	NH_2	H	NH-acetyl
amino acid	H	NH_2	H	OH
amino acid	H	NH_2	H	OMe
amino acid	H	NH_2	H	OEt
amino acid	H	NH_2	H	O-cyclopropyl
amino acid	H	NH_2	H	O-acetyl
amino acid	H	NH_2	H	SH
amino acid	H	NH_2	H	SMe
amino acid	H	NH_2	H	SEt
amino acid	H	NH_2	H	S-cyclopropyl
amino acid	H	NH_2	H	F
amino acid	H	NH_2	H	Cl
amino acid	H	NH_2	H	Br
amino acid	H	NH_2	H	I
amino acid	acyl	NH_2	H	H
amino acid	acyl	NH_2	H	NH_2
amino acid	acyl	NH_2	H	NH-cyclopropyl
amino acid	acyl	NH_2	H	NH-methyl
amino acid	acyl	NH_2	H	NH-ethyl
amino acid	acyl	NH_2	H	NH-acetyl
amino acid	acyl	NH_2	H	OH
amino acid	acyl	NH_2	H	OMe
amino acid	acyl	NH_2	H	OEt
amino acid	acyl	NH_2	H	O-cyclopropyl
amino acid	acyl	NH_2	H	O-acetyl
amino acid	acyl	NH_2	H	SH
amino acid	acyl	NH_2	H	SMe
amino acid	acyl	NH_2	H	SEt
amino acid	acyl	NH_2	H	S-cyclopropyl
amino acid	acyl	NH_2	H	F
amino acid	acyl	NH_2	H	Cl
amino acid	acyl	NH_2	H	Br
amino acid	acyl	NH_2	H	I
acyl	H	H	NH_2	H

R^2	R^3	X^1	X^2	Y
acyl	H	H	NH_2	NH_2
acyl	H	H	NH_2	NH-cyclopropyl
acyl	H	H	NH_2	NH-methyl
acyl	H	H	NH_2	NH-ethyl
acyl	H	H	NH_2	NH-acetyl
acyl	H	H	NH_2	OH
acyl	H	H	NH_2	OMe
acyl	H	H	NH_2	OEt
acyl	H	H	NH_2	O-cyclopropyl
acyl	H	H	NH_2	O-acetyl
acyl	H	H	NH_2	SH
acyl	H	H	NH_2	SMe
acyl	H	H	NH_2	SEt
acyl	H	H	NH_2	S-cyclopropyl
acyl	H	H	NH_2	F
acyl	H	H	NH_2	Cl
acyl	H	H	NH_2	Br
acyl	H	H	NH_2	I
acyl	acyl	H	NH_2	H
acyl	acyl	H	NH_2	NH_2
acyl	acyl	H	NH_2	NH-cyclopropyl
acyl	acyl	H	NH_2	NH-methyl
acyl	acyl	H	NH_2	NH-ethyl
acyl	acyl	H	NH_2	NH-acetyl
acyl	acyl	H	NH_2	OH
acyl	acyl	H	NH_2	OMe
acyl	acyl	H	NH_2	OEt
acyl	acyl	H	NH_2	O-cyclopropyl
acyl	acyl	H	NH_2	O-acetyl
acyl	acyl	H	NH_2	SH
acyl	acyl	H	NH_2	SMe
acyl	acyl	H	NH_2	SEt
acyl	acyl	H	NH_2	S-cyclopropyl
acyl	acyl	H	NH_2	F
acyl	acyl	H	NH_2	Cl
acyl	acyl	H	NH_2	Br
acyl	acyl	H	NH_2	I
acyl	amino acid	H	NH_2	H
acyl	amino acid	H	NH_2	NH_2
acyl	amino acid	H	NH_2	NH-cyclopropyl
acyl	amino acid	H	NH_2	NH-methyl
acyl	amino acid	H	NH_2	NH-ethyl
acyl	amino acid	H	NH_2	NH-acetyl
acyl	amino acid	H	NH_2	OH
acyl	amino acid	H	NH_2	OMe
acyl	amino acid	H	NH_2	OEt
acyl	amino acid	H	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	NH_2	O-acetyl
acyl	amino acid	H	NH_2	SH
acyl	amino acid	H	NH_2	SMe
acyl	amino acid	H	NH_2	SEt
acyl	amino acid	H	NH_2	S-cyclopropyl
acyl	amino acid	H	NH_2	F
acyl	amino acid	H	NH_2	Cl
acyl	amino acid	H	NH_2	Br
acyl	amino acid	H	NH_2	I
H	acyl	H	NH_2	H
H	acyl	H	NH_2	NH_2
H	acyl	H	NH_2	NH-cyclopropyl
H	acyl	H	NH_2	NH-methyl
H	acyl	H	NH_2	NH-ethyl
H	acyl	H	NH_2	NH-acetyl
H	acyl	H	NH_2	OH
H	acyl	H	NH_2	OMe
H	acyl	H	NH_2	OEt
H	acyl	H	NH_2	O-cyclopropyl
H	acyl	H	NH_2	O-acetyl
H	acyl	H	NH_2	SH
H	acyl	H	NH_2	SMe
H	acyl	H	NH_2	SEt
H	acyl	H	NH_2	S-cyclopropyl
H	acyl	H	NH_2	F
H	acyl	H	NH_2	Cl
H	acyl	H	NH_2	Br
H	acyl	H	NH_2	I
H	amino acid	H	NH_2	H
H	amino acid	H	NH_2	NH_2
H	amino acid	H	NH_2	NH-cyclopropyl
H	amino acid	H	NH_2	NH-methyl
H	amino acid	H	NH_2	NH-ethyl
H	amino acid	H	NH_2	NH-acetyl
H	amino acid	H	NH_2	OH
H	amino acid	H	NH_2	OMe
H	amino acid	H	NH_2	OEt
H	amino acid	H	NH_2	O-cyclopropyl
H	amino acid	H	NH_2	O-acetyl
H	amino acid	H	NH_2	SH
H	amino acid	H	NH_2	SMe
H	amino acid	H	NH_2	SEt
H	amino acid	H	NH_2	S-cyclopropyl
H	amino acid	H	NH_2	F
H	amino acid	H	NH_2	Cl
H	amino acid	H	NH_2	Br
H	amino acid	H	NH_2	I

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	H	NH_2	H
amino acid	amino acid	H	NH_2	NH_2
amino acid	amino acid	H	NH_2	NH-cyclopropyl
amino acid	amino acid	H	NH_2	NH-methyl
amino acid	amino acid	H	NH_2	NH-ethyl
amino acid	amino acid	H	NH_2	NH-acetyl
amino acid	amino acid	H	NH_2	OH
amino acid	amino acid	H	NH_2	OMe
amino acid	amino acid	H	NH_2	OEt
amino acid	amino acid	H	NH_2	O-cyclopropyl
amino acid	amino acid	H	NH_2	O-acetyl
amino acid	amino acid	H	NH_2	SH
amino acid	amino acid	H	NH_2	SMe
amino acid	amino acid	H	NH_2	SEt
amino acid	amino acid	H	NH_2	S-cyclopropyl
amino acid	amino acid	H	NH_2	F
amino acid	amino acid	H	NH_2	Cl
amino acid	amino acid	H	NH_2	Br
amino acid	amino acid	H	NH_2	I
amino acid	H	H	NH_2	H
amino acid	H	H	NH_2	NH_2
amino acid	H	H	NH_2	NH-cyclopropyl
amino acid	H	H	NH_2	NH-methyl
amino acid	H	H	NH_2	NH-ethyl
amino acid	H	H	NH_2	NH-acetyl
amino acid	H	H	NH_2	OH
amino acid	H	H	NH_2	OMe
amino acid	H	H	NH_2	OEt
amino acid	H	H	NH_2	O-cyclopropyl
amino acid	H	H	NH_2	O-acetyl
amino acid	H	H	NH_2	SH
amino acid	H	H	NH_2	SMe
amino acid	H	H	NH_2	SEt
amino acid	H	H	NH_2	S-cyclopropyl
amino acid	H	H	NH_2	F
amino acid	H	H	NH_2	Cl
amino acid	H	H	NH_2	Br
amino acid	H	H	NH_2	I
amino acid	acyl	H	NH_2	H
amino acid	acyl	H	NH_2	NH_2
amino acid	acyl	H	NH_2	NH-cyclopropyl
amino acid	acyl	H	NH_2	NH-methyl
amino acid	acyl	H	NH_2	NH-ethyl
amino acid	acyl	H	NH_2	NH-acetyl
amino acid	acyl	H	NH_2	OH
amino acid	acyl	H	NH_2	OMe
amino acid	acyl	H	NH_2	OEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	NH_2	O-cyclopropyl
amino acid	acyl	H	NH_2	O-acetyl
amino acid	acyl	H	NH_2	SH
amino acid	acyl	H	NH_2	SMe
amino acid	acyl	H	NH_2	SEt
amino acid	acyl	H	NH_2	S-cyclopropyl
amino acid	acyl	H	NH_2	F
amino acid	acyl	H	NH_2	Cl
amino acid	acyl	H	NH_2	Br
amino acid	acyl	H	NH_2	I
acyl	H	NH_2	NH_2	H
acyl	H	NH_2	NH_2	NH_2
acyl	H	NH_2	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH_2	NH-methyl
acyl	H	NH_2	NH_2	NH-ethyl
acyl	H	NH_2	NH_2	NH-acetyl
acyl	H	NH_2	NH_2	OH
acyl	H	NH_2	NH_2	OMe
acyl	H	NH_2	NH_2	OEt
acyl	H	NH_2	NH_2	O-cyclopropyl
acyl	H	NH_2	NH_2	O-acetyl
acyl	H	NH_2	NH_2	SH
acyl	H	NH_2	NH_2	SMe
acyl	H	NH_2	NH_2	SEt
acyl	H	NH_2	NH_2	S-cyclopropyl
acyl	H	NH_2	NH_2	F
acyl	H	NH_2	NH_2	Cl
acyl	H	NH_2	NH_2	Br
acyl	H	NH_2	NH_2	I
acyl	acyl	NH_2	NH_2	H
acyl	acyl	NH_2	NH_2	NH_2
acyl	acyl	NH_2	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH_2	NH-methyl
acyl	acyl	NH_2	NH_2	NH-ethyl
acyl	acyl	NH_2	NH_2	NH-acetyl
acyl	acyl	NH_2	NH_2	OH
acyl	acyl	NH_2	NH_2	OMe
acyl	acyl	NH_2	NH_2	OEt
acyl	acyl	NH_2	NH_2	O-cyclopropyl
acyl	acyl	NH_2	NH_2	O-acetyl
acyl	acyl	NH_2	NH_2	SH
acyl	acyl	NH_2	NH_2	SMe
acyl	acyl	NH_2	NH_2	SEt
acyl	acyl	NH_2	NH_2	S-cyclopropyl
acyl	acyl	NH_2	NH_2	F
acyl	acyl	NH_2	NH_2	Cl
acyl	acyl	NH_2	NH_2	Br

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	NH_2	I
acyl	amino acid	NH_2	NH_2	H
acyl	amino acid	NH_2	NH_2	NH_2
acyl	amino acid	NH_2	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH_2	NH-methyl
acyl	amino acid	NH_2	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH_2	NH-acetyl
acyl	amino acid	NH_2	NH_2	OH
acyl	amino acid	NH_2	NH_2	OMe
acyl	amino acid	NH_2	NH_2	OEt
acyl	amino acid	NH_2	NH_2	O-cyclopropyl
acyl	amino acid	NH_2	NH_2	O-acetyl
acyl	amino acid	NH_2	NH_2	SH
acyl	amino acid	NH_2	NH_2	SMe
acyl	amino acid	NH_2	NH_2	SEt
acyl	amino acid	NH_2	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	NH_2	F
acyl	amino acid	NH_2	NH_2	Cl
acyl	amino acid	NH_2	NH_2	Br
acyl	amino acid	NH_2	NH_2	I
H	acyl	NH_2	NH_2	H
H	acyl	NH_2	NH_2	NH_2
H	acyl	NH_2	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH_2	NH-methyl
H	acyl	NH_2	NH_2	NH-ethyl
H	acyl	NH_2	NH_2	NH-acetyl
H	acyl	NH_2	NH_2	OH
H	acyl	NH_2	NH_2	OMe
H	acyl	NH_2	NH_2	OEt
H	acyl	NH_2	NH_2	O-cyclopropyl
H	acyl	NH_2	NH_2	O-acetyl
H	acyl	NH_2	NH_2	SH
H	acyl	NH_2	NH_2	SMe
H	acyl	NH_2	NH_2	SEt
H	acyl	NH_2	NH_2	S-cyclopropyl
H	acyl	NH_2	NH_2	F
H	acyl	NH_2	NH_2	Cl
H	acyl	NH_2	NH_2	Br
H	acyl	NH_2	NH_2	I
H	amino acid	NH_2	NH_2	H
H	amino acid	NH_2	NH_2	NH_2
H	amino acid	NH_2	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH_2	NH-methyl
H	amino acid	NH_2	NH_2	NH-ethyl
H	amino acid	NH_2	NH_2	NH-acetyl
H	amino acid	NH_2	NH_2	OH
H	amino acid	NH_2	NH_2	OMe

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	NH_2	OEt
H	amino acid	NH_2	NH_2	O-cyclopropyl
H	amino acid	NH_2	NH_2	O-acetyl
H	amino acid	NH_2	NH_2	SH
H	amino acid	NH_2	NH_2	SMe
H	amino acid	NH_2	NH_2	SEt
H	amino acid	NH_2	NH_2	S-cyclopropyl
H	amino acid	NH_2	NH_2	F
H	amino acid	NH_2	NH_2	Cl
H	amino acid	NH_2	NH_2	Br
H	amino acid	NH_2	NH_2	I
amino acid	amino acid	NH_2	NH_2	H
amino acid	amino acid	NH_2	NH_2	NH_2
amino acid	amino acid	NH_2	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH_2	NH-acetyl
amino acid	amino acid	NH_2	NH_2	OH
amino acid	amino acid	NH_2	NH_2	OMe
amino acid	amino acid	NH_2	NH_2	OEt
amino acid	amino acid	NH_2	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	NH_2	O-acetyl
amino acid	amino acid	NH_2	NH_2	SH
amino acid	amino acid	NH_2	NH_2	SMe
amino acid	amino acid	NH_2	NH_2	SEt
amino acid	amino acid	NH_2	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	NH_2	F
amino acid	amino acid	NH_2	NH_2	Cl
amino acid	amino acid	NH_2	NH_2	Br
amino acid	amino acid	NH_2	NH_2	I
amino acid	H	NH_2	NH_2	H
amino acid	H	NH_2	NH_2	NH_2
amino acid	H	NH_2	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH_2	NH-methyl
amino acid	H	NH_2	NH_2	NH-ethyl
amino acid	H	NH_2	NH_2	NH-acetyl
amino acid	H	NH_2	NH_2	OH
amino acid	H	NH_2	NH_2	OMe
amino acid	H	NH_2	NH_2	OEt
amino acid	H	NH_2	NH_2	O-cyclopropyl
amino acid	H	NH_2	NH_2	O-acetyl
amino acid	H	NH_2	NH_2	SH
amino acid	H	NH_2	NH_2	SMe
amino acid	H	NH_2	NH_2	SEt
amino acid	H	NH_2	NH_2	S-cyclopropyl
amino acid	H	NH_2	NH_2	F
amino acid	H	NH_2	NH_2	Cl

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	NH_2	Br
amino acid	H	NH_2	NH_2	I
amino acid	acyl	NH_2	NH_2	H
amino acid	acyl	NH_2	NH_2	NH_2
amino acid	acyl	NH_2	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH_2	NH-methyl
amino acid	acyl	NH_2	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH_2	NH-acetyl
amino acid	acyl	NH_2	NH_2	OH
amino acid	acyl	NH_2	NH_2	OMe
amino acid	acyl	NH_2	NH_2	OEt
amino acid	acyl	NH_2	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	NH_2	O-acetyl
amino acid	acyl	NH_2	NH_2	SH
amino acid	acyl	NH_2	NH_2	SMe
amino acid	acyl	NH_2	NH_2	SEt
amino acid	acyl	NH_2	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	NH_2	F
amino acid	acyl	NH_2	NH_2	Cl
amino acid	acyl	NH_2	NH_2	Br
amino acid	acyl	NH_2	NH_2	I
acyl	H	OH	NH_2	H
acyl	H	OH	NH_2	NH_2
acyl	H	OH	NH_2	NH-cyclopropyl
acyl	H	OH	NH_2	NH-methyl
acyl	H	OH	NH_2	NH-ethyl
acyl	H	OH	NH_2	NH-acetyl
acyl	H	OH	NH_2	OH
acyl	H	OH	NH_2	OMe
acyl	H	OH	NH_2	OEt
acyl	H	OH	NH_2	O-cyclopropyl
acyl	H	OH	NH_2	O-acetyl
acyl	H	OH	NH_2	SH
acyl	H	OH	NH_2	SMe
acyl	H	OH	NH_2	SEt
acyl	H	OH	NH_2	S-cyclopropyl
acyl	H	OH	NH_2	F
acyl	H	OH	NH_2	Cl
acyl	H	OH	NH_2	Br
acyl	H	OH	NH_2	I
acyl	acyl	OH	NH_2	H
acyl	acyl	OH	NH_2	NH_2
acyl	acyl	OH	NH_2	NH-cyclopropyl
acyl	acyl	OH	NH_2	NH-methyl
acyl	acyl	OH	NH_2	NH-ethyl
acyl	acyl	OH	NH_2	NH-acetyl
acyl	acyl	OH	NH_2	OH

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	NH_2	OMe
acyl	acyl	OH	NH_2	OEt
acyl	acyl	OH	NH_2	O-cyclopropyl
acyl	acyl	OH	NH_2	O-acetyl
acyl	acyl	OH	NH_2	SH
acyl	acyl	OH	NH_2	SMe
acyl	acyl	OH	NH_2	SEt
acyl	acyl	OH	NH_2	S-cyclopropyl
acyl	acyl	OH	NH_2	F
acyl	acyl	OH	NH_2	Cl
acyl	acyl	OH	NH_2	Br
acyl	acyl	OH	NH_2	I
acyl	amino acid	OH	NH_2	H
acyl	amino acid	OH	NH_2	NH_2
acyl	amino acid	OH	NH_2	NH-cyclopropyl
acyl	amino acid	OH	NH_2	NH-methyl
acyl	amino acid	OH	NH_2	NH-ethyl
acyl	amino acid	OH	NH_2	NH-acetyl
acyl	amino acid	OH	NH_2	OH
acyl	amino acid	OH	NH_2	OMe
acyl	amino acid	OH	NH_2	OEt
acyl	amino acid	OH	NH_2	O-cyclopropyl
acyl	amino acid	OH	NH_2	O-acetyl
acyl	amino acid	OH	NH_2	SH
acyl	amino acid	OH	NH_2	SMe
acyl	amino acid	OH	NH_2	SEt
acyl	amino acid	OH	NH_2	S-cyclopropyl
acyl	amino acid	OH	NH_2	F
acyl	amino acid	OH	NH_2	Cl
acyl	amino acid	OH	NH_2	Br
acyl	amino acid	OH	NH_2	I
H	acyl	OH	NH_2	H
H	acyl	OH	NH_2	NH_2
H	acyl	OH	NH_2	NH-cyclopropyl
H	acyl	OH	NH_2	NH-methyl
H	acyl	OH	NH_2	NH-ethyl
H	acyl	OH	NH_2	NH-acetyl
H	acyl	OH	NH_2	OH
H	acyl	OH	NH_2	OMe
H	acyl	OH	NH_2	OEt
H	acyl	OH	NH_2	O-cyclopropyl
H	acyl	OH	NH_2	O-acetyl
H	acyl	OH	NH_2	SH
H	acyl	OH	NH_2	SMe
H	acyl	OH	NH_2	SEt
H	acyl	OH	NH_2	S-cyclopropyl
H	acyl	OH	NH_2	F

R^2	R^3	X^1	X^2	Y
H	acyl	OH	NH_2	Cl
H	acyl	OH	NH_2	Br
H	acyl	OH	NH_2	I
H	amino acid	OH	NH_2	H
H	amino acid	OH	NH_2	NH_2
H	amino acid	OH	NH_2	NH-cyclopropyl
H	amino acid	OH	NH_2	NH-methyl
H	amino acid	OH	NH_2	NH-ethyl
H	amino acid	OH	NH_2	NH-acetyl
H	amino acid	OH	NH_2	OH
H	amino acid	OH	NH_2	OMe
H	amino acid	OH	NH_2	OEt
H	amino acid	OH	NH_2	O-cyclopropyl
H	amino acid	OH	NH_2	O-acetyl
H	amino acid	OH	NH_2	SH
H	amino acid	OH	NH_2	SMe
H	amino acid	OH	NH_2	SEt
H	amino acid	OH	NH_2	S-cyclopropyl
H	amino acid	OH	NH_2	F
H	amino acid	OH	NH_2	Cl
H	amino acid	OH	NH_2	Br
H	amino acid	OH	NH_2	I
amino acid	amino acid	OH	NH_2	H
amino acid	amino acid	OH	NH_2	NH_2
amino acid	amino acid	OH	NH_2	NH-cyclopropyl
amino acid	amino acid	OH	NH_2	NH-methyl
amino acid	amino acid	OH	NH_2	NH-ethyl
amino acid	amino acid	OH	NH_2	NH-acetyl
amino acid	amino acid	OH	NH_2	OH
amino acid	amino acid	OH	NH_2	OMe
amino acid	amino acid	OH	NH_2	OEt
amino acid	amino acid	OH	NH_2	O-cyclopropyl
amino acid	amino acid	OH	NH_2	O-acetyl
amino acid	amino acid	OH	NH_2	SH
amino acid	amino acid	OH	NH_2	SMe
amino acid	amino acid	OH	NH_2	SEt
amino acid	amino acid	OH	NH_2	S-cyclopropyl
amino acid	amino acid	OH	NH_2	F
amino acid	amino acid	OH	NH_2	Cl
amino acid	amino acid	OH	NH_2	Br
amino acid	amino acid	OH	NH_2	I
amino acid	H	OH	NH_2	H
amino acid	H	OH	NH_2	NH_2
amino acid	H	OH	NH_2	NH-cyclopropyl
amino acid	H	OH	NH_2	NH-methyl
amino acid	H	OH	NH_2	NH-ethyl
amino acid	H	OH	NH_2	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	NH_2	OH
amino acid	H	OH	NH_2	OMe
amino acid	H	OH	NH_2	OEt
amino acid	H	OH	NH_2	O-cyclopropyl
amino acid	H	OH	NH_2	O-acetyl
amino acid	H	OH	NH_2	SH
amino acid	H	OH	NH_2	SMe
amino acid	H	OH	NH_2	SEt
amino acid	H	OH	NH_2	S-cyclopropyl
amino acid	H	OH	NH_2	F
amino acid	H	OH	NH_2	Cl
amino acid	H	OH	NH_2	Br
amino acid	H	OH	NH_2	I
amino acid	acyl	OH	NH_2	H
amino acid	acyl	OH	NH_2	NH_2
amino acid	acyl	OH	NH_2	NH-cyclopropyl
amino acid	acyl	OH	NH_2	NH-methyl
amino acid	acyl	OH	NH_2	NH-ethyl
amino acid	acyl	OH	NH_2	NH-acetyl
amino acid	acyl	OH	NH_2	OH
amino acid	acyl	OH	NH_2	OMe
amino acid	acyl	OH	NH_2	OEt
amino acid	acyl	OH	NH_2	O-cyclopropyl
amino acid	acyl	OH	NH_2	O-acetyl
amino acid	acyl	OH	NH_2	SH
amino acid	acyl	OH	NH_2	SMe
amino acid	acyl	OH	NH_2	SEt
amino acid	acyl	OH	NH_2	S-cyclopropyl
amino acid	acyl	OH	NH_2	F
amino acid	acyl	OH	NH_2	Cl
amino acid	acyl	OH	NH_2	Br
amino acid	acyl	OH	NH_2	I
acyl	H	OH	H	H
acyl	H	OH	H	NH_2
acyl	H	OH	H	NH-cyclopropyl
acyl	H	OH	H	NH-methyl
acyl	H	OH	H	NH-ethyl
acyl	H	OH	H	NH-acetyl
acyl	H	OH	H	OH
acyl	H	OH	H	OMe
acyl	H	OH	H	OEt
acyl	H	OH	H	O-cyclopropyl
acyl	H	OH	H	O-acetyl
acyl	H	OH	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt
acyl	H	OH	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH_2
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	H	H
acyl	amino acid	OH	H	NH_2
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	OH
acyl	amino acid	OH	H	OMe
acyl	amino acid	OH	H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	H	O-acetyl
acyl	amino acid	OH	H	SH
acyl	amino acid	OH	H	SMe
acyl	amino acid	OH	H	SEt
acyl	amino acid	OH	H	S-cyclopropyl
acyl	amino acid	OH	H	F
acyl	amino acid	OH	H	Cl
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	H	I
H	acyl	OH	H	H
H	acyl	OH	H	NH_2
H	acyl	OH	H	NH-cyclopropyl
H	acyl	OH	H	NH-methyl
H	acyl	OH	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	acyl	OH	H	NH-acetyl
H	acyl	OH	H	OH
H	acyl	OH	H	OMe
H	acyl	OH	H	OEt
H	acyl	OH	H	O-cyclopropyl
H	acyl	OH	H	O-acetyl
H	acyl	OH	H	SH
H	acyl	OH	H	SMe
H	acyl	OH	H	SEt
H	acyl	OH	H	S-cyclopropyl
H	acyl	OH	H	F
H	acyl	OH	H	Cl
H	acyl	OH	H	Br
H	acyl	OH	H	I
H	amino acid	OH	H	H
H	amino acid	OH	H	NH_2
H	amino acid	OH	H	NH-cyclopropyl
H	amino acid	OH	H	NH-methyl
H	amino acid	OH	H	NH-ethyl
H	amino acid	OH	H	NH-acetyl
H	amino acid	OH	H	OH
H	amino acid	OH	H	OMe
H	amino acid	OH	H	OEt
H	amino acid	OH	H	O-cyclopropyl
H	amino acid	OH	H	O-acetyl
H	amino acid	OH	H	SH
H	amino acid	OH	H	SMe
H	amino acid	OH	H	SEt
H	amino acid	OH	H	S-cyclopropyl
H	amino acid	OH	H	F
H	amino acid	OH	H	Cl
H	amino acid	OH	H	Br
H	amino acid	OH	H	I
amino acid	amino acid	OH	H	H
amino acid	amino acid	OH	H	NH_2
amino acid	amino acid	OH	H	NH-cyclopropyl
amino acid	amino acid	OH	H	NH-methyl
amino acid	amino acid	OH	H	NH-ethyl
amino acid	amino acid	OH	H	NH-acetyl
amino acid	amino acid	OH	H	OH
amino acid	amino acid	OH	H	OMe
amino acid	amino acid	OH	H	OEt
amino acid	amino acid	OH	H	O-cyclopropyl
amino acid	amino acid	OH	H	O-acetyl
amino acid	amino acid	OH	H	SH
amino acid	amino acid	OH	H	SMe
amino acid	amino acid	OH	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	H	S-cyclopropyl
amino acid	amino acid	OH	H	F
amino acid	amino acid	OH	H	Cl
amino acid	amino acid	OH	H	Br
amino acid	amino acid	OH	H	I
amino acid	H	OH	H	H
amino acid	H	OH	H	NH_2
amino acid	H	OH	H	NH-cyclopropyl
amino acid	H	OH	H	NH-methyl
amino acid	H	OH	H	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	H	OH	H	OH
amino acid	H	OH	H	OMe
amino acid	H	OH	H	OEt
amino acid	H	OH	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	H	SH
amino acid	H	OH	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	H	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	H	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	H	I
amino acid	acyl	OH	H	H
amino acid	acyl	OH	H	NH_2
amino acid	acyl	OH	H	NH-cyclopropyl
amino acid	acyl	OH	H	NH-methyl
amino acid	acyl	OH	H	NH-ethyl
amino acid	acyl	OH	H	NH-acetyl
amino acid	acyl	OH	H	OH
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	H	SEt
amino acid	acyl	OH	H	S-cyclopropyl
amino acid	acyl	OH	H	F
amino acid	acyl	OH	H	Cl
amino acid	acyl	OH	H	Br
amino acid	acyl	OH	H	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	H	OH	H
acyl	H	H	OH	NH_2
acyl	H	H	OH	NH-cyclopropyl
acyl	H	H	OH	NH-methyl
acyl	H	H	OH	NH-ethyl
acyl	H	H	OH	NH-acetyl
acyl	H	H	OH	OH
acyl	H	H	OH	OMe
acyl	H	H	OH	OEt
acyl	H	H	OH	O-cyclopropyl
acyl	H	H	OH	O-acetyl
acyl	H	H	OH	SH
acyl	H	H	OH	SMe
acyl	H	H	OH	SEt
acyl	H	H	OH	S-cyclopropyl
acyl	H	H	OH	F
acyl	H	H	OH	Cl
acyl	H	H	OH	Br
acyl	H	H	OH	I
acyl	acyl	H	OH	H
acyl	acyl	H	OH	NH_2
acyl	acyl	H	OH	NH-cyclopropyl
acyl	acyl	H	OH	NH-methyl
acyl	acyl	H	OH	NH-ethyl
acyl	acyl	H	OH	NH-acetyl
acyl	acyl	H	OH	OH
acyl	acyl	H	OH	OMe
acyl	acyl	H	OH	OEt
acyl	acyl	H	OH	O-cyclopropyl
acyl	acyl	H	OH	O-acetyl
acyl	acyl	H	OH	SH
acyl	acyl	H	OH	SMe
acyl	acyl	H	OH	SEt
acyl	acyl	H	OH	S-cyclopropyl
acyl	acyl	H	OH	F
acyl	acyl	H	OH	Cl
acyl	acyl	H	OH	Br
acyl	acyl	H	OH	I
acyl	amino acid	H	OH	H
acyl	amino acid	H	OH	NH_2

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	OH	NH-cyclopropyl
acyl	amino acid	H	OH	NH-methyl
acyl	amino acid	H	OH	NH-ethyl
acyl	amino acid	H	OH	NH-acetyl
acyl	amino acid	H	OH	OH
acyl	amino acid	H	OH	OMe
acyl	amino acid	H	OH	OEt
acyl	amino acid	H	OH	O-cyclopropyl
acyl	amino acid	H	OH	O-acetyl
acyl	amino acid	H	OH	SH
acyl	amino acid	H	OH	SMe
acyl	amino acid	H	OH	SEt
acyl	amino acid	H	OH	S-cyclopropyl
acyl	amino acid	H	OH	F
acyl	amino acid	H	OH	Cl
acyl	amino acid	H	OH	Br
acyl	amino acid	H	OH	I
H	acyl	H	OH	H
H	acyl	H	OH	NH_2
H	acyl	H	OH	NH-cyclopropyl
H	acyl	H	OH	NH-methyl
H	acyl	H	OH	NH-ethyl
H	acyl	H	OH	NH-acetyl
H	acyl	H	OH	OH
H	acyl	H	OH	OMe
H	acyl	H	OH	OEt
H	acyl	H	OH	O-cyclopropyl
H	acyl	H	OH	O-acetyl
H	acyl	H	OH	SH
H	acyl	H	OH	SMe
H	acyl	H	OH	SEt
H	acyl	H	OH	S-cyclopropyl
H	acyl	H	OH	F
H	acyl	H	OH	Cl
H	acyl	H	OH	Br
H	acyl	H	OH	I
H	amino acid	H	OH	H
H	amino acid	H	OH	NH_2
H	amino acid	H	OH	NH-cyclopropyl
H	amino acid	H	OH	NH-methyl
H	amino acid	H	OH	NH-ethyl
H	amino acid	H	OH	NH-acetyl
H	amino acid	H	OH	OH
H	amino acid	H	OH	OMe
H	amino acid	H	OH	OEt
H	amino acid	H	OH	O-cyclopropyl
H	amino acid	H	OH	O-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	OH	SH
H	amino acid	H	OH	SMe
H	amino acid	H	OH	SEt
H	amino acid	H	OH	S-cyclopropyl
H	amino acid	H	OH	F
H	amino acid	H	OH	Cl
H	amino acid	H	OH	Br
H	amino acid	H	OH	I
amino acid	amino acid	H	OH	H
amino acid	amino acid	H	OH	NH_2
amino acid	amino acid	H	OH	NH-cyclopropyl
amino acid	amino acid	H	OH	NH-methyl
amino acid	amino acid	H	OH	NH-ethyl
amino acid	amino acid	H	OH	NH-acetyl
amino acid	amino acid	H	OH	OH
amino acid	amino acid	H	OH	OMe
amino acid	amino acid	H	OH	OEt
amino acid	amino acid	H	OH	O-cyclopropyl
amino acid	amino acid	H	OH	O-acetyl
amino acid	amino acid	H	OH	SH
amino acid	amino acid	H	OH	SMe
amino acid	amino acid	H	OH	SEt
amino acid	amino acid	H	OH	S-cyclopropyl
amino acid	amino acid	H	OH	F
amino acid	amino acid	H	OH	Cl
amino acid	amino acid	H	OH	Br
amino acid	amino acid	H	OH	I
amino acid	H	H	OH	H
amino acid	H	H	OH	NH_2
amino acid	H	H	OH	NH-cyclopropyl
amino acid	H	H	OH	NH-methyl
amino acid	H	H	OH	NH-ethyl
amino acid	H	H	OH	NH-acetyl
amino acid	H	H	OH	OH
amino acid	H	H	OH	OMe
amino acid	H	H	OH	OEt
amino acid	H	H	OH	O-cyclopropyl
amino acid	H	H	OH	O-acetyl
amino acid	H	H	OH	SH
amino acid	H	H	OH	SMe
amino acid	H	H	OH	SEt
amino acid	H	H	OH	S-cyclopropyl
amino acid	H	H	OH	F
amino acid	H	H	OH	Cl
amino acid	H	H	OH	Br
amino acid	H	H	OH	I
amino acid	acyl	H	OH	H

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	OH	NH_2
amino acid	acyl	H	OH	NH-cyclopropyl
amino acid	acyl	H	OH	NH-methyl
amino acid	acyl	H	OH	NH-ethyl
amino acid	acyl	H	OH	NH-acetyl
amino acid	acyl	H	OH	OH
amino acid	acyl	H	OH	OMe
amino acid	acyl	H	OH	OEt
amino acid	acyl	H	OH	O-cyclopropyl
amino acid	acyl	H	OH	O-acetyl
amino acid	acyl	H	OH	SH
amino acid	acyl	H	OH	SMe
amino acid	acyl	H	OH	SEt
amino acid	acyl	H	OH	S-cyclopropyl
amino acid	acyl	H	OH	F
amino acid	acyl	H	OH	Cl
amino acid	acyl	H	OH	Br
amino acid	acyl	H	OH	I
acyl	H	OH	SH	H
acyl	H	OH	SH	NH_2
acyl	H	OH	SH	NH-cyclopropyl
acyl	H	OH	SH	NH-methyl
acyl	H	OH	SH	NH-ethyl
acyl	H	OH	SH	NH-acetyl
acyl	H	OH	SH	OH
acyl	H	OH	SH	OMe
acyl	H	OH	SH	OEt
acyl	H	OH	SH	O-cyclopropyl
acyl	H	OH	SH	O-acetyl
acyl	H	OH	SH	SH
acyl	H	OH	SH	SMe
acyl	H	OH	SH	SEt
acyl	H	OH	SH	S-cyclopropyl
acyl	H	OH	SH	F
acyl	H	OH	SH	Cl
acyl	H	OH	SH	Br
acyl	H	OH	SH	I
acyl	acyl	OH	SH	H
acyl	acyl	OH	SH	NH_2
acyl	acyl	OH	SH	NH-cyclopropyl
acyl	acyl	OH	SH	NH-methyl
acyl	acyl	OH	SH	NH-ethyl
acyl	acyl	OH	SH	NH-acetyl
acyl	acyl	OH	SH	OH
acyl	acyl	OH	SH	OMe
acyl	acyl	OH	SH	OEt
acyl	acyl	OH	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	SH	O-acetyl
acyl	acyl	OH	SH	SH
acyl	acyl	OH	SH	SMe
acyl	acyl	OH	SH	SEt
acyl	acyl	OH	SH	S-cyclopropyl
acyl	acyl	OH	SH	F
acyl	acyl	OH	SH	Cl
acyl	acyl	OH	SH	Br
acyl	acyl	OH	SH	I
acyl	amino acid	OH	SH	H
acyl	amino acid	OH	SH	NH_2
acyl	amino acid	OH	SH	NH-cyclopropyl
acyl	amino acid	OH	SH	NH-methyl
acyl	amino acid	OH	SH	NH-ethyl
acyl	amino acid	OH	SH	NH-acetyl
acyl	amino acid	OH	SH	OH
acyl	amino acid	OH	SH	OMe
acyl	amino acid	OH	SH	OEt
acyl	amino acid	OH	SH	O-cyclopropyl
acyl	amino acid	OH	SH	O-acetyl
acyl	amino acid	OH	SH	SH
acyl	amino acid	OH	SH	SMe
acyl	amino acid	OH	SH	SEt
acyl	amino acid	OH	SH	S-cyclopropyl
acyl	amino acid	OH	SH	F
acyl	amino acid	OH	SH	Cl
acyl	amino acid	OH	SH	Br
acyl	amino acid	OH	SH	I
H	acyl	OH	SH	H
H	acyl	OH	SH	NH_2
H	acyl	OH	SH	NH-cyclopropyl
H	acyl	OH	SH	NH-methyl
H	acyl	OH	SH	NH-ethyl
H	acyl	OH	SH	NH-acetyl
H	acyl	OH	SH	OH
H	acyl	OH	SH	OMe
H	acyl	OH	SH	OEt
H	acyl	OH	SH	O-cyclopropyl
H	acyl	OH	SH	O-acetyl
H	acyl	OH	SH	SH
H	acyl	OH	SH	SMe
H	acyl	OH	SH	SEt
H	acyl	OH	SH	S-cyclopropyl
H	acyl	OH	SH	F
H	acyl	OH	SH	Cl
H	acyl	OH	SH	Br
H	acyl	OH	SH	I

R^2	R^3	X^1	X^2	Y
H	amino acid	OH	SH	H
H	amino acid	OH	SH	NH_2
H	amino acid	OH	SH	NH-cyclopropyl
H	amino acid	OH	SH	NH-methyl
H	amino acid	OH	SH	NH-ethyl
H	amino acid	OH	SH	NH-acetyl
H	amino acid	OH	SH	OH
H	amino acid	OH	SH	OMe
H	amino acid	OH	SH	OEt
H	amino acid	OH	SH	O-cyclopropyl
H	amino acid	OH	SH	O-acetyl
H	amino acid	OH	SH	SH
H	amino acid	OH	SH	SMe
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
H	amino acid	OH	SH	Cl
H	amino acid	OH	SH	Br
H	amino acid	OH	SH	I
amino acid	amino acid	OH	SH	H
amino acid	amino acid	OH	SH	NH_2
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	OH	SH	OH
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	OH	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	H	OH	SH	H
amino acid	H	OH	SH	NH_2
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	H	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	H	OH	SH	OH
amino acid	H	OH	SH	OMe
amino acid	H	OH	SH	OEt

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	H	OH	SH	SH
amino acid	H	OH	SH	SMe
amino acid	H	OH	SH	SEt
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH_2
amino acid	acyl	OH	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	OH
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyl	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	OH	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	OH	SH	Br
amino acid	acyl	OH	SH	I
acyl	H	SH	OH	H
acyl	H	SH	OH	NH_2
acyl	H	SH	OH	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	OH	OH
acyl	H	SH	OH	OMe
acyl	H	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	H	SH	OH	O-acetyl
acyl	H	SH	OH	SH
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	H	SH	OH	Cl
acyl	H	SH	OH	Br

R^2	R^3	X^1	X^2	Y
acyl	H	SH	OH	I
acyl	acyl	SH	OH	H
acyl	acyl	SH	OH	NH_2
acyl	acyl	SH	OH	NH-cyclopropyl
acyl	acyl	SH	OH	NH-methyl
acyl	acyl	SH	OH	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	OH
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	OH	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	OH	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	OH	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	OH	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	OH	I
acyl	amino acid	SH	OH	H
acyl	amino acid	SH	OH	NH_2
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	OH	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl
acyl	amino acid	SH	OH	Br
acyl	amino acid	SH	OH	I
H	acyl	SH	OH	H
H	acyl	SH	OH	NH_2
H	acyl	SH	OH	NH-cyclopropyl
H	acyl	SH	OH	NH-methyl
H	acyl	SH	OH	NH-ethyl
H	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	OH
H	acyl	SH	OH	OMe

R^2	R^3	X^1	X^2	Y
H	acyl	SH	OH	OEt
H	acyl	SH	OH	O-cyclopropyl
H	acyl	SH	OH	O-acetyl
H	acyl	SH	OH	SH
H	acyl	SH	OH	SMe
H	acyl	SH	OH	SEt
H	acyl	SH	OH	S-cyclopropyl
H	acyl	SH	OH	F
H	acyl	SH	OH	Cl
H	acyl	SH	OH	Br
H	acyl	SH	OH	I
H	amino acid	SH	OH	H
H	amino acid	SH	OH	NH_2
H	amino acid	SH	OH	NH-cyclopropyl
H	amino acid	SH	OH	NH-methyl
H	amino acid	SH	OH	NH-ethyl
H	amino acid	SH	OH	NH-acetyl
H	amino acid	SH	OH	OH
H	amino acid	SH	OH	OMe
H	amino acid	SH	OH	OEt
H	amino acid	SH	OH	O-cyclopropyl
H	amino acid	SH	OH	O-acetyl
H	amino acid	SH	OH	SH
H	amino acid	SH	OH	SMe
H	amino acid	SH	OH	SEt
H	amino acid	SH	OH	S-cyclopropyl
H	amino acid	SH	OH	F
H	amino acid	SH	OH	Cl
H	amino acid	SH	OH	Br
H	amino acid	SH	OH	I
amino acid	amino acid	SH	OH	H
amino acid	amino acid	SH	OH	NH_2
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	OH
amino acid	amino acid	SH	OH	OMe
amino acid	amino acid	SH	OH	OEt
amino acid	amino acid	SH	OH	O-cyclopropyl
amino acid	amino acid	SH	OH	O-acetyl
amino acid	amino acid	SH	OH	SH
amino acid	amino acid	SH	OH	SMe
amino acid	amino acid	SH	OH	SEt
amino acid	amino acid	SH	OH	S-cyclopropyl
amino acid	amino acid	SH	OH	F
amino acid	amino acid	SH	OH	Cl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	OH	Br
amino acid	amino acid	SH	OH	I
amino acid	H	SH	OH	H
amino acid	H	SH	OH	NH_2
amino acid	H	SH	OH	NH-cyclopropyl
amino acid	H	SH	OH	NH-methyl
amino acid	H	SH	OH	NH-ethyl
amino acid	H	SH	OH	NH-acetyl
amino acid	H	SH	OH	OH
amino acid	H	SH	OH	OMe
amino acid	H	SH	OH	OEt
amino acid	H	SH	OH	O-cyclopropyl
amino acid	H	SH	OH	O-acetyl
amino acid	H	SH	OH	SH
amino acid	H	SH	OH	SMe
amino acid	H	SH	OH	SEt
amino acid	H	SH	OH	S-cyclopropyl
amino acid	H	SH	OH	F
amino acid	H	SH	OH	Cl
amino acid	H	SH	OH	Br
amino acid	H	SH	OH	I
amino acid	acyl	SH	OH	H
amino acid	acyl	SH	OH	NH_2
amino acid	acyl	SH	OH	NH-cyclopropyl
amino acid	acyl	SH	OH	NH-methyl
amino acid	acyl	SH	OH	NH-ethyl
amino acid	acyl	SH	OH	NH-acetyl
amino acid	acyl	SH	OH	OH
amino acid	acyl	SH	OH	OMe
amino acid	acyl	SH	OH	OEt
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	S-cyclopropyl
amino acid	acyl	SH	OH	F
amino acid	acyl	SH	OH	Cl
amino acid	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	H	Br	H	H
acyl	H	Br	H	NH_2
acyl	H	Br	H	NH-cyclopropyl
acyl	H	Br	H	NH-methyl
acyl	H	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl
acyl	H	Br	H	OH

R^2	R^3	X^1	X^2	Y
acyl	H	Br	H	OMe
acyl	H	Br	H	OEt
acyl	H	Br	H	O-cyclopropyl
acyl	H	Br	H	O-acetyl
acyl	H	Br	H	SH
acyl	H	Br	H	SMe
acyl	H	Br	H	SEt
acyl	H	Br	H	S-cyclopropyl
acyl	H	Br	H	F
acyl	H	Br	H	Cl
acyl	H	Br	H	Br
acyl	H	Br	H	I
acyl	acyl	Br	H	H
acyl	acyl	Br	H	NH_2
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	H	O-cyclopropyl
acyl	acyl	Br	H	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	H	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	H	S-cyclopropyl
acyl	acyl	Br	H	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	amino acid	Br	H	H
acyl	amino acid	Br	H	NH_2
acyl	amino acid	Br	H	NH-cyclopropyl
acyl	amino acid	Br	H	NH-methyl
acyl	amino acid	Br	H	NH-ethyl
acyl	amino acid	Br	H	NH-acetyl
acyl	amino acid	Br	H	OH
acyl	amino acid	Br	H	OMe
acyl	amino acid	Br	H	OEt
acyl	amino acid	Br	H	O-cyclopropyl
acyl	amino acid	Br	H	O-acetyl
acyl	amino acid	Br	H	SH
acyl	amino acid	Br	H	SMe
acyl	amino acid	Br	H	SEt
acyl	amino acid	Br	H	S-cyclopropyl
acyl	amino acid	Br	H	F

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	H	Cl
acyl	amino acid	Br	H	Br
acyl	amino acid	Br	H	I
H	acyl	Br	H	H
H	acyl	Br	H	NH_2
H	acyl	Br	H	NH-cyclopropyl
H	acyl	Br	H	NH-methyl
H	acyl	Br	H	NH-ethyl
H	acyl	Br	H	NH-acetyl
H	acyl	Br	H	OH
H	acyl	Br	H	OMe
H	acyl	Br	H	OEt
H	acyl	Br	H	O-cyclopropyl
H	acyl	Br	H	O-acetyl
H	acyl	Br	H	SH
H	acyl	Br	H	SMe
H	acyl	Br	H	SEt
H	acyl	Br	H	S-cyclopropyl
H	acyl	Br	H	F
H	acyl	Br	H	Cl
H	acyl	Br	H	Br
H	acyl	Br	H	I
H	amino acid	Br	H	H
H	amino acid	Br	H	NH_2
H	amino acid	Br	H	NH-cyclopropyl
H	amino acid	Br	H	NH-methyl
H	amino acid	Br	H	NH-ethyl
H	amino acid	Br	H	NH-acetyl
H	amino acid	Br	H	OH
H	amino acid	Br	H	OMe
H	amino acid	Br	H	OEt
H	amino acid	Br	H	O-cyclopropyl
H	amino acid	Br	H	O-acetyl
H	amino acid	Br	H	SH
H	amino acid	Br	H	SMe
H	amino acid	Br	H	SEt
H	amino acid	Br	H	S-cyclopropyl
H	amino acid	Br	H	F
H	amino acid	Br	H	Cl
H	amino acid	Br	H	Br
H	amino acid	Br	H	I
amino acid	amino acid	Br	H	H
amino acid	amino acid	Br	H	NH_2
amino acid	amino acid	Br	H	NH-cyclopropyl
amino acid	amino acid	Br	H	NH-methyl
amino acid	amino acid	Br	H	NH-ethyl
amino acid	amino acid	Br	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	H	OH
amino acid	amino acid	Br	H	OMe
amino acid	amino acid	Br	H	OEt
amino acid	amino acid	Br	H	O-cyclopropyl
amino acid	amino acid	Br	H	O-acetyl
amino acid	amino acid	Br	H	SH
amino acid	amino acid	Br	H	SMe
amino acid	amino acid	Br	H	SEt
amino acid	amino acid	Br	H	S-cyclopropyl
amino acid	amino acid	Br	H	F
amino acid	amino acid	Br	H	Cl
amino acid	amino acid	Br	H	Br
amino acid	amino acid	Br	H	I
amino acid	H	Br	H	H
amino acid	H	Br	H	NH_2
amino acid	H	Br	H	NH-cyclopropyl
amino acid	H	Br	H	NH-methyl
amino acid	H	Br	H	NH-ethyl
amino acid	H	Br	H	NH-acetyl
amino acid	H	Br	H	OH
amino acid	H	Br	H	OMe
amino acid	H	Br	H	OEt
amino acid	H	Br	H	O-cyclopropyl
amino acid	H	Br	H	O-acetyl
amino acid	H	Br	H	SH
amino acid	H	Br	H	SMe
amino acid	H	Br	H	SEt
amino acid	H	Br	H	S-cyclopropyl
amino acid	H	Br	H	F
amino acid	H	Br	H	Cl
amino acid	H	Br	H	Br
amino acid	H	Br	H	I
amino acid	acyl	Br	H	H
amino acid	acyl	Br	H	NH_2
amino acid	acyl	Br	H	NH-cyclopropyl
amino acid	acyl	Br	H	NH-methyl
amino acid	acyl	Br	H	NH-ethyl
amino acid	acyl	Br	H	NH-acetyl
amino acid	acyl	Br	H	OH
amino acid	acyl	Br	H	OMe
amino acid	acyl	Br	H	OEt
amino acid	acyl	Br	H	O-cyclopropyl
amino acid	acyl	Br	H	O-acetyl
amino acid	acyl	Br	H	SH
amino acid	acyl	Br	H	SMe
amino acid	acyl	Br	H	SEt
amino acid	acyl	Br	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	H	F
amino acid	acyl	Br	H	Cl
amino acid	acyl	Br	H	Br
amino acid	acyl	Br	H	I
acyl	H	Br	Br	H
acyl	H	Br	Br	NH_2
acyl	H	Br	Br	NH-cyclopropyl
acyl	H	Br	Br	NH-methyl
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	H	Br	Br	I
acyl	acyl	Br	Br	H
acyl	acyl	Br	Br	NH_2
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl
acyl	acyl	Br	Br	NH-ethyl
acyl	acyl	Br	Br	NH-acetyl
acyl	acyl	Br	Br	OH
acyl	acyl	Br	Br	OMe
acyl	acyl	Br	Br	OEt
acyl	acyl	Br	Br	O-cyclopropyl
acyl	acyl	Br	Br	O-acetyl
acyl	acyl	Br	Br	SH
acyl	acyl	Br	Br	SMe
acyl	acyl	Br	Br	SEt
acyl	acyl	Br	Br	S-cyclopropyl
acyl	acyl	Br	Br	F
acyl	acyl	Br	Br	Cl
acyl	acyl	Br	Br	Br
acyl	acyl	Br	Br	I
acyl	amino acid	Br	Br	H
acyl	amino acid	Br	Br	NH_2
acyl	amino acid	Br	Br	NH-cyclopropyl
acyl	amino acid	Br	Br	NH-methyl
acyl	amino acid	Br	Br	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	Br	NH-acetyl
acyl	amino acid	Br	Br	OH
acyl	amino acid	Br	Br	OMe
acyl	amino acid	Br	Br	OEt
acyl	amino acid	Br	Br	O-cyclopropyl
acyl	amino acid	Br	Br	O-acetyl
acyl	amino acid	Br	Br	SH
acyl	amino acid	Br	Br	SMe
acyl	amino acid	Br	Br	SEt
acyl	amino acid	Br	Br	S-cyclopropyl
acyl	amino acid	Br	Br	F
acyl	amino acid	Br	Br	Cl
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	H
H	acyl	Br	Br	NH_2
H	acyl	Br	Br	NH-cyclopropyl
H	acyl	Br	Br	NH-methyl
H	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
H	acyl	Br	Br	OH
H	acyl	Br	Br	OMe
H	acyl	Br	Br	OEt
H	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
H	acyl	Br	Br	SH
H	acyl	Br	Br	SMe
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
H	amino acid	Br	Br	H
H	amino acid	Br	Br	NH_2
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
H	amino acid	Br	Br	NH-ethyl
H	amino acid	Br	Br	NH-acetyl
H	amino acid	Br	Br	OH
H	amino acid	Br	Br	OMe
H	amino acid	Br	Br	OEt
H	amino acid	Br	Br	O-cyclopropyl
H	amino acid	Br	Br	O-acetyl
H	amino acid	Br	Br	SH
H	amino acid	Br	Br	SMe
H	amino acid	Br	Br	SEt

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	Br	S-cyclopropyl
H	amino acid	Br	Br	F
H	amino acid	Br	Br	Cl
H	amino acid	Br	Br	Br
H	amino acid	Br	Br	I
amino acid	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	NH_2
amino acid	amino acid	Br	Br	NH-cyclopropyl
amino acid	amino acid	Br	Br	NH-methyl
amino acid	amino acid	Br	Br	NH-ethyl
amino acid	amino acid	Br	Br	NH-acetyl
amino acid	amino acid	Br	Br	OH
amino acid	amino acid	Br	Br	OMe
amino acid	amino acid	Br	Br	OEt
amino acid	amino acid	Br	Br	O-cyclopropyl
amino acid	amino acid	Br	Br	O-acetyl
amino acid	amino acid	Br	Br	SH
amino acid	amino acid	Br	Br	SMe
amino acid	amino acid	Br	Br	SEt
amino acid	amino acid	Br	Br	S-cyclopropyl
amino acid	amino acid	Br	Br	F
amino acid	amino acid	Br	Br	Cl
amino acid	amino acid	Br	Br	Br
amino acid	amino acid	Br	Br	I
amino acid	H	Br	Br	H
amino acid	H	Br	Br	NH_2
amino acid	H	Br	Br	NH-cyclopropyl
amino acid	H	Br	Br	NH-methyl
amino acid	H	Br	Br	NH-ethyl
amino acid	H	Br	Br	NH-acetyl
amino acid	H	Br	Br	OH
amino acid	H	Br	Br	OMe
amino acid	H	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	H	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	H	Br	Br	SEt
amino acid	H	Br	Br	S-cyclopropyl
amino acid	H	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	H	Br	Br	Br
amino acid	H	Br	Br	I
amino acid	acyl	Br	Br	H
amino acid	acyl	Br	Br	NH_2
amino acid	acyl	Br	Br	NH-cyclopropyl
amino acid	acyl	Br	Br	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Br	NH-ethyl
amino acid	acyl	Br	Br	NH-acetyl
amino acid	acyl	Br	Br	OH
amino acid	acyl	Br	Br	OMe
amino acid	acyl	Br	Br	OEt
amino acid	acyl	Br	Br	O-cyclopropyl
amino acid	acyl	Br	Br	O-acetyl
amino acid	acyl	Br	Br	SH
amino acid	acyl	Br	Br	SMe
amino acid	acyl	Br	Br	SEt
amino acid	acyl	Br	Br	S-cyclopropyl
amino acid	acyl	Br	Br	F
amino acid	acyl	Br	Br	Cl
amino acid	acyl	Br	Br	Br
amino acid	acyl	Br	Br	I
acyl	H	H	Br	H
acyl	H	H	Br	NH_2
acyl	H	H	Br	NH-cyclopropyl
acyl	H	H	Br	NH-methyl
acyl	H	H	Br	NH-ethyl
acyl	H	H	Br	NH-acetyl
acyl	H	H	Br	OH
acyl	H	H	Br	OMe
acyl	H	H	Br	OEt
acyl	H	H	Br	O-cyclopropyl
acyl	H	H	Br	O-acetyl
acyl	H	H	Br	SH
acyl	H	H	Br	SMe
acyl	H	H	Br	SEt
acyl	H	H	Br	S-cyclopropyl
acyl	H	H	Br	F
acyl	H	H	Br	Cl
acyl	H	H	Br	Br
acyl	H	H	Br	I
acyl	acyl	H	Br	H
acyl	acyl	H	Br	NH_2
acyl	acyl	H	Br	NH-cyclopropyl
acyl	acyl	H	Br	NH-methyl
acyl	acyl	H	Br	NH-ethyl
acyl	acyl	H	Br	NH-acetyl
acyl	acyl	H	Br	OH
acyl	acyl	H	Br	OMe
acyl	acyl	H	Br	OEt
acyl	acyl	H	Br	O-cyclopropyl
acyl	acyl	H	Br	O-acetyl
acyl	acyl	H	Br	SH
acyl	acyl	H	Br	SMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	Br	SEt
acyl	acyl	H	Br	S-cyclopropyl
acyl	acyl	H	Br	F
acyl	acyl	H	Br	Cl
acyl	acyl	H	Br	Br
acyl	acyl	H	Br	I
acyl	amino acid	H	Br	H
acyl	amino acid	H	Br	NH_2
acyl	amino acid	H	Br	NH-cyclopropyl
acyl	amino acid	H	Br	NH-methyl
acyl	amino acid	H	Br	NH-ethyl
acyl	amino acid	H	Br	NH-acetyl
acyl	amino acid	H	Br	OH
acyl	amino acid	H	Br	OMe
acyl	amino acid	H	Br	OEt
acyl	amino acid	H	Br	O-cyclopropyl
acyl	amino acid	H	Br	O-acetyl
acyl	amino acid	H	Br	SH
acyl	amino acid	H	Br	SMe
acyl	amino acid	H	Br	SEt
acyl	amino acid	H	Br	S-cyclopropyl
acyl	amino acid	H	Br	F
acyl	amino acid	H	Br	Cl
acyl	amino acid	H	Br	Br
acyl	amino acid	H	Br	I
H	acyl	H	Br	H
H	acyl	H	Br	NH_2
H	acyl	H	Br	NH-cyclopropyl
H	acyl	H	Br	NH-methyl
H	acyl	H	Br	NH-ethyl
H	acyl	H	Br	NH-acetyl
H	acyl	H	Br	OH
H	acyl	H	Br	OMe
H	acyl	H	Br	OEt
H	acyl	H	Br	O-cyclopropyl
H	acyl	H	Br	O-acetyl
H	acyl	H	Br	SH
H	acyl	H	Br	SMe
H	acyl	H	Br	SEt
H	acyl	H	Br	S-cyclopropyl
H	acyl	H	Br	F
H	acyl	H	Br	Cl
H	acyl	H	Br	Br
H	acyl	H	Br	I
H	amino acid	H	Br	H
H	amino acid	H	Br	NH_2
H	amino acid	H	Br	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Br	NH-methyl
H	amino acid	H	Br	NH-ethyl
H	amino acid	H	Br	NH-acetyl
H	amino acid	H	Br	OH
H	amino acid	H	Br	OMe
H	amino acid	H	Br	OEt
H	amino acid	H	Br	O-cyclopropyl
H	amino acid	H	Br	O-acetyl
H	amino acid	H	Br	SH
H	amino acid	H	Br	SMe
H	amino acid	H	Br	SEt
H	amino acid	H	Br	S-cyclopropyl
H	amino acid	H	Br	F
H	amino acid	H	Br	Cl
H	amino acid	H	Br	Br
H	amino acid	H	Br	I
amino acid	amino acid	H	Br	H
amino acid	amino acid	H	Br	NH_2
amino acid	amino acid	H	Br	NH-cyclopropyl
amino acid	amino acid	H	Br	NH-methyl
amino acid	amino acid	H	Br	NH-ethyl
amino acid	amino acid	H	Br	NH-acetyl
amino acid	amino acid	H	Br	OH
amino acid	amino acid	H	Br	OMe
amino acid	amino acid	H	Br	OEt
amino acid	amino acid	H	Br	O-cyclopropyl
amino acid	amino acid	H	Br	O-acetyl
amino acid	amino acid	H	Br	SH
amino acid	amino acid	H	Br	SMe
amino acid	amino acid	H	Br	SEt
amino acid	amino acid	H	Br	S-cyclopropyl
amino acid	amino acid	H	Br	F
amino acid	amino acid	H	Br	Cl
amino acid	amino acid	H	Br	Br
amino acid	amino acid	H	Br	I
amino acid	H	H	Br	H
amino acid	H	H	Br	NH_2
amino acid	H	H	Br	NH-cyclopropyl
amino acid	H	H	Br	NH-methyl
amino acid	H	H	Br	NH-ethyl
amino acid	H	H	Br	NH-acetyl
amino acid	H	H	Br	OH
amino acid	H	H	Br	OMe
amino acid	H	H	Br	OEt
amino acid	H	H	Br	O-cyclopropyl
amino acid	H	H	Br	O-acetyl
amino acid	H	H	Br	SH

R^2	R^3	X^1	X^2	Y
amino acid	H	H	Br	SMe
amino acid	H	H	Br	SEt
amino acid	H	H	Br	S-cyclopropyl
amino acid	H	H	Br	F
amino acid	H	H	Br	Cl
amino acid	H	H	Br	Br
amino acid	H	H	Br	I
amino acid	acyl	H	Br	H
amino acid	acyl	H	Br	NH_2
amino acid	acyl	H	Br	NH-cyclopropyl
amino acid	acyl	H	Br	NH-methyl
amino acid	acyl	H	Br	NH-ethyl
amino acid	acyl	H	Br	NH-acetyl
amino acid	acyl	H	Br	OH
amino acid	acyl	H	Br	OMe
amino acid	acyl	H	Br	OEt
amino acid	acyl	H	Br	O-cyclopropyl
amino acid	acyl	H	Br	O-acetyl
amino acid	acyl	H	Br	SH
amino acid	acyl	H	Br	SMe
amino acid	acyl	H	Br	SEt
amino acid	acyl	H	Br	S-cyclopropyl
amino acid	acyl	H	Br	F
amino acid	acyl	H	Br	Cl
amino acid	acyl	H	Br	Br
amino acid	acyl	H	Br	I
acyl	H	Cl	Br	H
acyl	H	Cl	Br	NH_2
acyl	H	Cl	Br	NH-cyclopropyl
acyl	H	Cl	Br	NH-methyl
acyl	H	Cl	Br	NH-ethyl
acyl	H	Cl	Br	NH-acetyl
acyl	H	Cl	Br	OH
acyl	H	Cl	Br	OMe
acyl	H	Cl	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH
acyl	H	Cl	Br	SMe
acyl	H	Cl	Br	SEt
acyl	H	Cl	Br	S-cyclopropyl
acyl	H	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	H
acyl	acyl	Cl	Br	NH_2

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	Cl	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cl	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	amino acid	Cl	Br	H
acyl	amino acid	Cl	Br	NH_2
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	OH
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	Cl	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	Cl	Br	I
H	acyl	Cl	Br	H
H	acyl	Cl	Br	NH_2
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
H	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	Cl	Br	O-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
H	amino acid	Cl	Br	H
H	amino acid	Cl	Br	NH_2
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
H	amino acid	Cl	Br	OMe
H	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
H	amino acid	Cl	Br	O-acetyl
H	amino acid	Cl	Br	SH
H	amino acid	Cl	Br	SMe
H	amino acid	Cl	Br	SEt
H	amino acid	Cl	Br	S-cyclopropyl
H	amino acid	Cl	Br	F
H	amino acid	Cl	Br	Cl
H	amino acid	Cl	Br	Br
H	amino acid	Cl	Br	I
amino acid	amino acid	Cl	Br	H
amino acid	amino acid	Cl	Br	NH_2
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	Cl	Br	NH-acetyl
amino acid	amino acid	Cl	Br	OH
amino acid	amino acid	Cl	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
amino acid	amino acid	Cl	Br	O-acetyl
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	I
amino acid	H	Cl	Br	H

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	Br	NH_2
amino acid	H	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	H	Cl	Br	OH
amino acid	H	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	H	Cl	Br	SEt
amino acid	H	Cl	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	Cl	Br	Br
amino acid	H	Cl	Br	I
amino acid	acyl	Cl	Br	H
amino acid	acyl	Cl	Br	NH_2
amino acid	acyl	Cl	Br	NH-cyclopropyl
amino acid	acyl	Cl	Br	NH-methyl
amino acid	acyl	Cl	Br	NH-ethyl
amino acid	acyl	Cl	Br	NH-acetyl
amino acid	acyl	Cl	Br	OH
amino acid	acyl	Cl	Br	OMe
amino acid	acyl	Cl	Br	OEt
amino acid	acyl	Cl	Br	O-cyclopropyl
amino acid	acyl	Cl	Br	O-acetyl
amino acid	acyl	Cl	Br	SH
amino acid	acyl	Cl	Br	SMe
amino acid	acyl	Cl	Br	SEt
amino acid	acyl	Cl	Br	S-cyclopropyl
amino acid	acyl	Cl	Br	F
amino acid	acyl	Cl	Br	Cl
amino acid	acyl	Cl	Br	Br
amino acid	acyl	Cl	Br	I
acyl	H	Br	Cl	H
acyl	H	Br	Cl	NH_2
acyl	H	Br	Cl	NH-cyclopropyl
acyl	H	Br	Cl	NH-methyl
acyl	H	Br	Cl	NH-ethyl
acyl	H	Br	Cl	NH-acetyl
acyl	H	Br	Cl	OH
acyl	H	Br	Cl	OMe
acyl	H	Br	Cl	OEt
acyl	H	Br	Cl	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	Br	Cl	O-acetyl
acyl	H	Br	Cl	SH
acyl	H	Br	Cl	SMe
acyl	H	Br	Cl	SEt
acyl	H	Br	Cl	S-cyclopropyl
acyl	H	Br	Cl	F
acyl	H	Br	Cl	Cl
acyl	H	Br	Cl	Br
acyl	H	Br	Cl	I
acyl	acyl	Br	Cl	H
acyl	acyl	Br	Cl	NH_2
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	Cl	NH-ethyl
acyl	acyl	Br	Cl	NH-acetyl
acyl	acyl	Br	Cl	OH
acyl	acyl	Br	Cl	OMe
acyl	acyl	Br	Cl	OEt
acyl	acyl	Br	Cl	O-cyclopropyl
acyl	acyl	Br	Cl	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	Cl	I
acyl	amino acid	Br	Cl	H
acyl	amino acid	Br	Cl	NH_2
acyl	amino acid	Br	Cl	NH-cyclopropyl
acyl	amino acid	Br	Cl	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	Cl	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	Cl	F
acyl	amino acid	Br	Cl	Cl
acyl	amino acid	Br	Cl	Br
acyl	amino acid	Br	Cl	I

R^2	R^3	X^1	X^2	Y
H	acyl	Br	Cl	H
H	acyl	Br	Cl	NH_2
H	acyl	Br	Cl	NH-cyclopropyl
H	acyl	Br	Cl	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	Cl	NH-acetyl
H	acyl	Br	Cl	OH
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH
H	acyl	Br	Cl	SMe
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
H	acyl	Br	Cl	I
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH_2
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
H	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
H	amino acid	Br	Cl	I
amino acid	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH_2
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br	Cl	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe
amino acid	amino acid	Br	Cl	OEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	Cl	O-acetyl
amino acid	amino acid	Br	Cl	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	I
amino acid	H	Br	Cl	H
amino acid	H	Br	Cl	NH_2
amino acid	H	Br	Cl	NH-cyclopropyl
amino acid	H	Br	Cl	NH-methyl
amino acid	H	Br	Cl	NH-ethyl
amino acid	H	Br	Cl	NH-acetyl
amino acid	H	Br	Cl	OH
amino acid	H	Br	Cl	OMe
amino acid	H	Br	Cl	OEt
amino acid	H	Br	Cl	O-cyclopropyl
amino acid	H	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	H	Br	Cl	SEt
amino acid	H	Br	Cl	S-cyclopropyl
amino acid	H	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	H	Br	Cl	I
amino acid	acyl	Br	Cl	H
amino acid	acyl	Br	Cl	NH_2
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	Cl	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH
amino acid	acyl	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	F
amino acid	acyl	Br	Cl	Cl
amino acid	acyl	Br	Cl	Br

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Cl	I
acyl	H	H	Cl	H
acyl	H	H	Cl	NH_2
acyl	H	H	Cl	NH-cyclopropyl
acyl	H	H	Cl	NH-methyl
acyl	H	H	Cl	NH-ethyl
acyl	H	H	Cl	NH-acetyl
acyl	H	H	Cl	OH
acyl	H	H	Cl	OMe
acyl	H	H	Cl	OEt
acyl	H	H	Cl	O-cyclopropyl
acyl	H	H	Cl	O-acetyl
acyl	H	H	Cl	SH
acyl	H	H	Cl	SMe
acyl	H	H	Cl	SEt
acyl	H	H	Cl	S-cyclopropyl
acyl	H	H	Cl	F
acyl	H	H	Cl	Cl
acyl	H	H	Cl	Br
acyl	H	H	Cl	I
acyl	acyl	H	Cl	H
acyl	acyl	H	Cl	NH_2
acyl	acyl	H	Cl	NH-cyclopropyl
acyl	acyl	H	Cl	NH-methyl
acyl	acyl	H	Cl	NH-ethyl
acyl	acyl	H	Cl	NH-acetyl
acyl	acyl	H	Cl	OH
acyl	acyl	H	Cl	OMe
acyl	acyl	H	Cl	OEt
acyl	acyl	H	Cl	O-cyclopropyl
acyl	acyl	H	Cl	O-acetyl
acyl	acyl	H	Cl	SH
acyl	acyl	H	Cl	SMe
acyl	acyl	H	Cl	SEt
acyl	acyl	H	Cl	S-cyclopropyl
acyl	acyl	H	Cl	F
acyl	acyl	H	Cl	Cl
acyl	acyl	H	Cl	Br
acyl	acyl	H	Cl	I
acyl	amino acid	H	Cl	H
acyl	amino acid	H	Cl	NH_2
acyl	amino acid	H	Cl	NH-cyclopropyl
acyl	amino acid	H	Cl	NH-methyl
acyl	amino acid	H	Cl	NH-ethyl
acyl	amino acid	H	Cl	NH-acetyl
acyl	amino acid	H	Cl	OH
acyl	amino acid	H	Cl	OMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	Cl	OEt
acyl	amino acid	H	Cl	O-cyclopropyl
acyl	amino acid	H	Cl	O-acetyl
acyl	amino acid	H	Cl	SH
acyl	amino acid	H	Cl	SMe
acyl	amino acid	H	Cl	SEt
acyl	amino acid	H	Cl	S-cyclopropyl
acyl	amino acid	H	Cl	F
acyl	amino acid	H	Cl	Cl
acyl	amino acid	H	Cl	Br
acyl	amino acid	H	Cl	I
H	acyl	H	Cl	H
H	acyl	H	Cl	NH_2
H	acyl	H	Cl	NH-cyclopropyl
H	acyl	H	Cl	NH-methyl
H	acyl	H	Cl	NH-ethyl
H	acyl	H	Cl	NH-acetyl
H	acyl	H	Cl	OH
H	acyl	H	Cl	OMe
H	acyl	H	Cl	OEt
H	acyl	H	Cl	O-cyclopropyl
H	acyl	H	Cl	O-acetyl
H	acyl	H	Cl	SH
H	acyl	H	Cl	SMe
H	acyl	H	Cl	SEt
H	acyl	H	Cl	S-cyclopropyl
H	acyl	H	Cl	F
H	acyl	H	Cl	Cl
H	acyl	H	Cl	Br
H	acyl	H	Cl	I
H	amino acid	H	Cl	H
H	amino acid	H	Cl	NH_2
H	amino acid	H	Cl	NH-cyclopropyl
H	amino acid	H	Cl	NH-methyl
H	amino acid	H	Cl	NH-ethyl
H	amino acid	H	Cl	NH-acetyl
H	amino acid	H	Cl	OH
H	amino acid	H	Cl	OMe
H	amino acid	H	Cl	OEt
H	amino acid	H	Cl	O-cyclopropyl
H	amino acid	H	Cl	O-acetyl
H	amino acid	H	Cl	SH
H	amino acid	H	Cl	SMe
H	amino acid	H	Cl	SEt
H	amino acid	H	Cl	S-cyclopropyl
H	amino acid	H	Cl	F
H	amino acid	H	Cl	Cl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Cl	Br
H	amino acid	H	Cl	I
amino acid	amino acid	H	Cl	H
amino acid	amino acid	H	Cl	NH_2
amino acid	amino acid	H	Cl	NH-cyclopropyl
amino acid	amino acid	H	Cl	NH-methyl
amino acid	amino acid	H	Cl	NH-ethyl
amino acid	amino acid	H	Cl	NH-acetyl
amino acid	amino acid	H	Cl	OH
amino acid	amino acid	H	Cl	OMe
amino acid	amino acid	H	Cl	OEt
amino acid	amino acid	H	Cl	O-cyclopropyl
amino acid	amino acid	H	Cl	O-acetyl
amino acid	amino acid	H	Cl	SH
amino acid	amino acid	H	Cl	SMe
amino acid	amino acid	H	Cl	SEt
amino acid	amino acid	H	Cl	S-cyclopropyl
amino acid	amino acid	H	Cl	F
amino acid	amino acid	H	Cl	Cl
amino acid	amino acid	H	Cl	Br
amino acid	amino acid	H	Cl	I
amino acid	H	H	Cl	H
amino acid	H	H	Cl	NH_2
amino acid	H	H	Cl	NH-cyclopropyl
amino acid	H	H	Cl	NH-methyl
amino acid	H	H	Cl	NH-ethyl
amino acid	H	H	Cl	NH-acetyl
amino acid	H	H	Cl	OH
amino acid	H	H	Cl	OMe
amino acid	H	H	Cl	OEt
amino acid	H	H	Cl	O-cyclopropyl
amino acid	H	H	Cl	O-acetyl
amino acid	H	H	Cl	SH
amino acid	H	H	Cl	SMe
amino acid	H	H	Cl	SEt
amino acid	H	H	Cl	S-cyclopropyl
amino acid	H	H	Cl	F
amino acid	H	H	Cl	Cl
amino acid	H	H	Cl	Br
amino acid	H	H	Cl	I
amino acid	acyl	H	Cl	H
amino acid	acyl	H	Cl	NH_2
amino acid	acyl	H	Cl	NH-cyclopropyl
amino acid	acyl	H	Cl	NH-methyl
amino acid	acyl	H	Cl	NH-ethyl
amino acid	acyl	H	Cl	NH-acetyl
amino acid	acyl	H	Cl	OH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	Cl	OMe
amino acid	acyl	H	Cl	OEt
amino acid	acyl	H	Cl	O-cyclopropyl
amino acid	acyl	H	Cl	O-acetyl
amino acid	acyl	H	Cl	SH
amino acid	acyl	H	Cl	SMe
amino acid	acyl	H	Cl	SEt
amino acid	acyl	H	Cl	S-cyclopropyl
amino acid	acyl	H	Cl	F
amino acid	acyl	H	Cl	Cl
amino acid	acyl	H	Cl	Br
amino acid	acyl	H	Cl	I
acyl	H	Cl	H	H
acyl	H	Cl	H	NH_2
acyl	H	Cl	H	NH-cyclopropyl
acyl	H	Cl	H	NH-methyl
acyl	H	Cl	H	NH-ethyl
acyl	H	Cl	H	NH-acetyl
acyl	H	Cl	H	OH
acyl	H	Cl	H	OMe
acyl	H	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	H	Cl	H	O-acetyl
acyl	H	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	Cl	H	SEt
acyl	H	Cl	H	S-cyclopropyl
acyl	H	Cl	H	F
acyl	H	Cl	H	Cl
acyl	H	Cl	H	Br
acyl	H	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH_2
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	amino acid	Cl	H	H
acyl	amino acid	Cl	H	NH_2
acyl	amino acid	Cl	H	NH-cyclopropyl
acyl	amino acid	Cl	H	NH-methyl
acyl	amino acid	Cl	H	NH-ethyl
acyl	amino acid	Cl	H	NH-acetyl
acyl	amino acid	Cl	H	OH
acyl	amino acid	Cl	H	OMe
acyl	amino acid	Cl	H	OEt
acyl	amino acid	Cl	H	O-cyclopropyl
acyl	amino acid	Cl	H	O-acetyl
acyl	amino acid	Cl	H	SH
acyl	amino acid	Cl	H	SMe
acyl	amino acid	Cl	H	SEt
acyl	amino acid	Cl	H	S-cyclopropyl
acyl	amino acid	Cl	H	F
acyl	amino acid	Cl	H	Cl
acyl	amino acid	Cl	H	Br
acyl	amino acid	Cl	H	I
H	acyl	Cl	H	H
H	acyl	Cl	H	NH_2
H	acyl	Cl	H	NH-cyclopropyl
H	acyl	Cl	H	NH-methyl
H	acyl	Cl	H	NH-ethyl
H	acyl	Cl	H	NH-acetyl
H	acyl	Cl	H	OH
H	acyl	Cl	H	OMe
H	acyl	Cl	H	OEt
H	acyl	Cl	H	O-cyclopropyl
H	acyl	Cl	H	O-acetyl
H	acyl	Cl	H	SH
H	acyl	Cl	H	SMe
H	acyl	Cl	H	SEt
H	acyl	Cl	H	S-cyclopropyl
H	acyl	Cl	H	F
H	acyl	Cl	H	Cl
H	acyl	Cl	H	Br
H	acyl	Cl	H	I
H	amino acid	Cl	H	H
H	amino acid	Cl	H	NH_2
H	amino acid	Cl	H	NH-cyclopropyl
H	amino acid	Cl	H	NH-methyl
H	amino acid	Cl	H	NH-ethyl
H	amino acid	Cl	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	H	OH
H	amino acid	Cl	H	OMe
H	amino acid	Cl	H	OEt
H	amino acid	Cl	H	O-cyclopropyl
H	amino acid	Cl	H	O-acetyl
H	amino acid	Cl	H	SH
H	amino acid	Cl	H	SMe
H	amino acid	Cl	H	SEt
H	amino acid	Cl	H	S-cyclopropyl
H	amino acid	Cl	H	F
H	amino acid	Cl	H	Cl
H	amino acid	Cl	H	Br
H	amino acid	Cl	H	I
amino acid	amino acid	Cl	H	H
amino acid	amino acid	Cl	H	NH_2
amino acid	amino acid	Cl	H	NH-cyclopropyl
amino acid	amino acid	Cl	H	NH-methyl
amino acid	amino acid	Cl	H	NH-ethyl
amino acid	amino acid	Cl	H	NH-acetyl
amino acid	amino acid	Cl	H	OH
amino acid	amino acid	Cl	H	OMe
amino acid	amino acid	Cl	H	OEt
amino acid	amino acid	Cl	H	O-cyclopropyl
amino acid	amino acid	Cl	H	O-acetyl
amino acid	amino acid	Cl	H	SH
amino acid	amino acid	Cl	H	SMe
amino acid	amino acid	Cl	H	SEt
amino acid	amino acid	Cl	H	S-cyclopropyl
amino acid	amino acid	Cl	H	F
amino acid	amino acid	Cl	H	Cl
amino acid	amino acid	Cl	H	Br
amino acid	amino acid	Cl	H	I
amino acid	H	Cl	H	H
amino acid	H	Cl	H	NH_2
amino acid	H	Cl	H	NH-cyclopropyl
amino acid	H	Cl	H	NH-methyl
amino acid	H	Cl	H	NH-ethyl
amino acid	H	Cl	H	NH-acetyl
amino acid	H	Cl	H	OH
amino acid	H	Cl	H	OMe
amino acid	H	Cl	H	OEt
amino acid	H	Cl	H	O-cyclopropyl
amino acid	H	Cl	H	O-acetyl
amino acid	H	Cl	H	SH
amino acid	H	Cl	H	SMe
amino acid	H	Cl	H	SEt
amino acid	H	Cl	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	H	F
amino acid	H	Cl	H	Cl
amino acid	H	Cl	H	Br
amino acid	H	Cl	H	I
amino acid	acyl	Cl	H	H
amino acid	acyl	Cl	H	NH_2
amino acid	acyl	Cl	H	NH-cyclopropyl
amino acid	acyl	Cl	H	NH-methyl
amino acid	acyl	Cl	H	NH-ethyl
amino acid	acyl	Cl	H	NH-acetyl
amino acid	acyl	Cl	H	OH
amino acid	acyl	Cl	H	OMe
amino acid	acyl	Cl	H	OEt
amino acid	acyl	Cl	H	O-cyclopropyl
amino acid	acyl	Cl	H	O-acetyl
amino acid	acyl	Cl	H	SH
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	Cl	H	F
amino acid	acyl	Cl	H	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	Cl	H	I
acyl	H	Cl	NH_2	H
acyl	H	Cl	NH_2	NH_2
acyl	H	Cl	NH_2	NH-cyclopropyl
acyl	H	Cl	NH_2	NH-methyl
acyl	H	Cl	NH_2	NH-ethyl
acyl	H	Cl	NH_2	NH-acetyl
acyl	H	Cl	NH_2	OH
acyl	H	Cl	NH_2	OMe
acyl	H	Cl	NH_2	OEt
acyl	H	Cl	NH_2	O-cyclopropyl
acyl	H	Cl	NH_2	O-acetyl
acyl	H	Cl	NH_2	SH
acyl	H	Cl	NH_2	SMe
acyl	H	Cl	NH_2	SEt
acyl	H	Cl	NH_2	S-cyclopropyl
acyl	H	Cl	NH_2	F
acyl	H	Cl	NH_2	Cl
acyl	H	Cl	NH_2	Br
acyl	H	Cl	NH_2	I
acyl	acyl	Cl	NH_2	H
acyl	acyl	Cl	NH_2	NH_2
acyl	acyl	Cl	NH_2	NH-cyclopropyl
acyl	acyl	Cl	NH_2	NH-methyl
acyl	acyl	Cl	NH_2	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	NH_2	NH-acetyl
acyl	acyl	Cl	NH_2	OH
acyl	acyl	Cl	NH_2	OMe
acyl	acyl	Cl	NH_2	OEt
acyl	acyl	Cl	NH_2	O-cyclopropyl
acyl	acyl	Cl	NH_2	O-acetyl
acyl	acyl	Cl	NH_2	SH
acyl	acyl	Cl	NH_2	SMe
acyl	acyl	Cl	NH_2	SEt
acyl	acyl	Cl	NH_2	S-cyclopropyl
acyl	acyl	Cl	NH_2	F
acyl	acyl	Cl	NH_2	Cl
acyl	acyl	Cl	NH_2	Br
acyl	acyl	Cl	NH_2	I
acyl	amino acid	Cl	NH_2	H
acyl	amino acid	Cl	NH_2	NH_2
acyl	amino acid	Cl	NH_2	NH-cyclopropyl
acyl	amino acid	Cl	NH_2	NH-methyl
acyl	amino acid	Cl	NH_2	NH-ethyl
acyl	amino acid	Cl	NH_2	NH-acetyl
acyl	amino acid	Cl	NH_2	OH
acyl	amino acid	Cl	NH_2	OMe
acyl	amino acid	Cl	NH_2	OEt
acyl	amino acid	Cl	NH_2	O-cyclopropyl
acyl	amino acid	Cl	NH_2	O-acetyl
acyl	amino acid	Cl	NH_2	SH
acyl	amino acid	Cl	NH_2	SMe
acyl	amino acid	Cl	NH_2	SEt
acyl	amino acid	Cl	NH_2	S-cyclopropyl
acyl	amino acid	Cl	NH_2	F
acyl	amino acid	Cl	NH_2	Cl
acyl	amino acid	Cl	NH_2	Br
acyl	amino acid	Cl	NH_2	I
H	acyl	Cl	NH_2	H
H	acyl	Cl	NH_2	NH_2
H	acyl	Cl	NH_2	NH-cyclopropyl
H	acyl	Cl	NH_2	NH-methyl
H	acyl	Cl	NH_2	NH-ethyl
H	acyl	Cl	NH_2	NH-acetyl
H	acyl	Cl	NH_2	OH
H	acyl	Cl	NH_2	OMe
H	acyl	Cl	NH_2	OEt
H	acyl	Cl	NH_2	O-cyclopropyl
H	acyl	Cl	NH_2	O-acetyl
H	acyl	Cl	NH_2	SH
H	acyl	Cl	NH_2	SMe
H	acyl	Cl	NH_2	SEt

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	NH_2	S-cyclopropyl
H	acyl	Cl	NH_2	F
H	acyl	Cl	NH_2	Cl
H	acyl	Cl	NH_2	Br
H	acyl	Cl	NH_2	I
H	amino acid	Cl	NH_2	H
H	amino acid	Cl	NH_2	NH_2
H	amino acid	Cl	NH_2	NH-cyclopropyl
H	amino acid	Cl	NH_2	NH-methyl
H	amino acid	Cl	NH_2	NH-ethyl
H	amino acid	Cl	NH_2	NH-acetyl
H	amino acid	Cl	NH_2	OH
H	amino acid	Cl	NH_2	OMe
H	amino acid	Cl	NH_2	OEt
H	amino acid	Cl	NH_2	O-cyclopropyl
H	amino acid	Cl	NH_2	O-acetyl
H	amino acid	Cl	NH_2	SH
H	amino acid	Cl	NH_2	SMe
H	amino acid	Cl	NH_2	SEt
H	amino acid	Cl	NH_2	S-cyclopropyl
H	amino acid	Cl	NH_2	F
H	amino acid	Cl	NH_2	Cl
H	amino acid	Cl	NH_2	Br
H	amino acid	Cl	NH_2	I
amino acid	amino acid	Cl	NH_2	H
amino acid	amino acid	Cl	NH_2	NH_2
amino acid	amino acid	Cl	NH_2	NH-cyclopropyl
amino acid	amino acid	Cl	NH_2	NH-methyl
amino acid	amino acid	Cl	NH_2	NH-ethyl
amino acid	amino acid	Cl	NH_2	NH-acetyl
amino acid	amino acid	Cl	NH_2	OH
amino acid	amino acid	Cl	NH_2	OMe
amino acid	amino acid	Cl	NH_2	OEt
amino acid	amino acid	Cl	NH_2	O-cyclopropyl
amino acid	amino acid	Cl	NH_2	O-acetyl
amino acid	amino acid	Cl	NH_2	SH
amino acid	amino acid	Cl	NH_2	SMe
amino acid	amino acid	Cl	NH_2	SEt
amino acid	amino acid	Cl	NH_2	S-cyclopropyl
amino acid	amino acid	Cl	NH_2	F
amino acid	amino acid	Cl	NH_2	Cl
amino acid	amino acid	Cl	NH_2	Br
amino acid	amino acid	Cl	NH_2	I
amino acid	H	Cl	NH_2	H
amino acid	H	Cl	NH_2	NH_2
amino acid	H	Cl	NH_2	NH-cyclopropyl
amino acid	H	Cl	NH_2	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	NH_2	NH-ethyl
amino acid	H	Cl	NH_2	NH-acetyl
amino acid	H	Cl	NH_2	OH
amino acid	H	Cl	NH_2	OMe
amino acid	H	Cl	NH_2	OEt
amino acid	H	Cl	NH_2	O-cyclopropyl
amino acid	H	Cl	NH_2	O-acetyl
amino acid	H	Cl	NH_2	SH
amino acid	H	Cl	NH_2	SMe
amino acid	H	Cl	NH_2	SEt
amino acid	H	Cl	NH_2	S-cyclopropyl
amino acid	H	Cl	NH_2	F
amino acid	H	Cl	NH_2	Cl
amino acid	H	Cl	NH_2	Br
amino acid	H	Cl	NH_2	I
amino acid	acyl	Cl	NH_2	H
amino acid	acyl	Cl	NH_2	NH_2
amino acid	acyl	Cl	NH_2	NH-cyclopropyl
amino acid	acyl	Cl	NH_2	NH-methyl
amino acid	acyl	Cl	NH_2	NH-ethyl
amino acid	acyl	Cl	NH_2	NH-acetyl
amino acid	acyl	Cl	NH_2	OH
amino acid	acyl	Cl	NH_2	OMe
amino acid	acyl	Cl	NH_2	OEt
amino acid	acyl	Cl	NH_2	O-cyclopropyl
amino acid	acyl	Cl	NH_2	O-acetyl
amino acid	acyl	Cl	NH_2	SH
amino acid	acyl	Cl	NH_2	SMe
amino acid	acyl	Cl	NH_2	SEt
amino acid	acyl	Cl	NH_2	S-cyclopropyl
amino acid	acyl	Cl	NH_2	F
amino acid	acyl	Cl	NH_2	Cl
amino acid	acyl	Cl	NH_2	Br
amino acid	acyl	Cl	NH_2	I
acyl	H	SH	NH_2	H
acyl	H	SH	NH_2	NH_2
acyl	H	SH	NH_2	NH-cyclopropyl
acyl	H	SH	NH_2	NH-methyl
acyl	H	SH	NH_2	NH-ethyl
acyl	H	SH	NH_2	NH-acetyl
acyl	H	SH	NH_2	OH
acyl	H	SH	NH_2	OMe
acyl	H	SH	NH_2	OEt
acyl	H	SH	NH_2	O-cyclopropyl
acyl	H	SH	NH_2	O-acetyl
acyl	H	SH	NH_2	SH
acyl	H	SH	NH_2	SMe

R^2	R^3	X^1	X^2	Y
acyl	H	SH	NH_2	SEt
acyl	H	SH	NH_2	S-cyclopropyl
acyl	H	SH	NH_2	F
acyl	H	SH	NH_2	Cl
acyl	H	SH	NH_2	Br
acyl	H	SH	NH_2	I
acyl	acyl	SH	NH_2	H
acyl	acyl	SH	NH_2	NH_2
acyl	acyl	SH	NH_2	NH-cyclopropyl
acyl	acyl	SH	NH_2	NH-methyl
acyl	acyl	SH	NH_2	NH-ethyl
acyl	acyl	SH	NH_2	NH-acetyl
acyl	acyl	SH	NH_2	OH
acyl	acyl	SH	NH_2	OMe
acyl	acyl	SH	NH_2	OEt
acyl	acyl	SH	NH_2	O-cyclopropyl
acyl	acyl	SH	NH_2	O-acetyl
acyl	acyl	SH	NH_2	SH
acyl	acyl	SH	NH_2	SMe
acyl	acyl	SH	NH_2	SEt
acyl	acyl	SH	NH_2	S-cyclopropyl
acyl	acyl	SH	NH_2	F
acyl	acyl	SH	NH_2	Cl
acyl	acyl	SH	NH_2	Br
acyl	acyl	SH	NH_2	I
acyl	amino acid	SH	NH_2	H
acyl	amino acid	SH	NH_2	NH_2
acyl	amino acid	SH	NH_2	NH-cyclopropyl
acyl	amino acid	SH	NH_2	NH-methyl
acyl	amino acid	SH	NH_2	NH-ethyl
acyl	amino acid	SH	NH_2	NH-acetyl
acyl	amino acid	SH	NH_2	OH
acyl	amino acid	SH	NH_2	OMe
acyl	amino acid	SH	NH_2	OEt
acyl	amino acid	SH	NH_2	O-cyclopropyl
acyl	amino acid	SH	NH_2	O-acetyl
acyl	amino acid	SH	NH_2	SH
acyl	amino acid	SH	NH_2	SMe
acyl	amino acid	SH	NH_2	SEt
acyl	amino acid	SH	NH_2	S-cyclopropyl
acyl	amino acid	SH	NH_2	F
acyl	amino acid	SH	NH_2	Cl
acyl	amino acid	SH	NH_2	Br
acyl	amino acid	SH	NH_2	I
H	acyl	SH	NH_2	H
H	acyl	SH	NH_2	NH_2
H	acyl	SH	NH_2	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	SH	NH_2	NH-methyl
H	acyl	SH	NH_2	NH-ethyl
H	acyl	SH	NH_2	NH-acetyl
H	acyl	SH	NH_2	OH
H	acyl	SH	NH_2	OMe
H	acyl	SH	NH_2	OEt
H	acyl	SH	NH_2	O-cyclopropyl
H	acyl	SH	NH_2	O-acetyl
H	acyl	SH	NH_2	SH
H	acyl	SH	NH_2	SMe
H	acyl	SH	NH_2	SEt
H	acyl	SH	NH_2	S-cyclopropyl
H	acyl	SH	NH_2	F
H	acyl	SH	NH_2	Cl
H	acyl	SH	NH_2	Br
H	acyl	SH	NH_2	I
H	amino acid	SH	NH_2	H
H	amino acid	SH	NH_2	NH_2
H	amino acid	SH	NH_2	NH-cyclopropyl
H	amino acid	SH	NH_2	NH-methyl
H	amino acid	SH	NH_2	NH-ethyl
H	amino acid	SH	NH_2	NH-acetyl
H	amino acid	SH	NH_2	OH
H	amino acid	SH	NH_2	OMe
H	amino acid	SH	NH_2	OEt
H	amino acid	SH	NH_2	O-cyclopropyl
H	amino acid	SH	NH_2	O-acetyl
H	amino acid	SH	NH_2	SH
H	amino acid	SH	NH_2	SMe
H	amino acid	SH	NH_2	SEt
H	amino acid	SH	NH_2	S-cyclopropyl
H	amino acid	SH	NH_2	F
H	amino acid	SH	NH_2	Cl
H	amino acid	SH	NH_2	Br
H	amino acid	SH	NH_2	I
amino acid	amino acid	SH	NH_2	H
amino acid	amino acid	SH	NH_2	NH_2
amino acid	amino acid	SH	NH_2	NH-cyclopropyl
amino acid	amino acid	SH	NH_2	NH-methyl
amino acid	amino acid	SH	NH_2	NH-ethyl
amino acid	amino acid	SH	NH_2	NH-acetyl
amino acid	amino acid	SH	NH_2	OH
amino acid	amino acid	SH	NH_2	OMe
amino acid	amino acid	SH	NH_2	OEt
amino acid	amino acid	SH	NH_2	O-cyclopropyl
amino acid	amino acid	SH	NH_2	O-acetyl
amino acid	amino acid	SH	NH_2	SH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	NH_2	SMe
amino acid	amino acid	SH	NH_2	SEt
amino acid	amino acid	SH	NH_2	S-cyclopropyl
amino acid	amino acid	SH	NH_2	F
amino acid	amino acid	SH	NH_2	Cl
amino acid	amino acid	SH	NH_2	Br
amino acid	amino acid	SH	NH_2	I
amino acid	H	SH	NH_2	H
amino acid	H	SH	NH_2	NH_2
amino acid	H	SH	NH_2	NH-cyclopropyl
amino acid	H	SH	NH_2	NH-methyl
amino acid	H	SH	NH_2	NH-ethyl
amino acid	H	SH	NH_2	NH-acetyl
amino acid	H	SH	NH_2	OH
amino acid	H	SH	NH_2	OMe
amino acid	H	SH	NH_2	OEt
amino acid	H	SH	NH_2	O-cyclopropyl
amino acid	H	SH	NH_2	O-acetyl
amino acid	H	SH	NH_2	SH
amino acid	H	SH	NH_2	SMe
amino acid	H	SH	NH_2	SEt
amino acid	H	SH	NH_2	S-cyclopropyl
amino acid	H	SH	NH_2	F
amino acid	H	SH	NH_2	Cl
amino acid	H	SH	NH_2	Br
amino acid	H	SH	NH_2	I
amino acid	acyl	SH	NH_2	H
amino acid	acyl	SH	NH_2	NH_2
amino acid	acyl	SH	NH_2	NH-cyclopropyl
amino acid	acyl	SH	NH_2	NH-methyl
amino acid	acyl	SH	NH_2	NH-ethyl
amino acid	acyl	SH	NH_2	NH-acetyl
amino acid	acyl	SH	NH_2	OH
amino acid	acyl	SH	NH_2	OMe
amino acid	acyl	SH	NH_2	OEt
amino acid	acyl	SH	NH_2	O-cyclopropyl
amino acid	acyl	SH	NH_2	O-acetyl
amino acid	acyl	SH	NH_2	SH
amino acid	acyl	SH	NH_2	SMe
amino acid	acyl	SH	NH_2	SEt
amino acid	acyl	SH	NH_2	S-cyclopropyl
amino acid	acyl	SH	NH_2	F
amino acid	acyl	SH	NH_2	Cl
amino acid	acyl	SH	NH_2	Br
amino acid	acyl	SH	NH_2	I
acyl	H	Br	NH_2	H
acyl	H	Br	NH_2	NH_2

R^2	R^3	X^1	X^2	Y
acyl	H	Br	NH_2	NH-cyclopropyl
acyl	H	Br	NH_2	NH-methyl
acyl	H	Br	NH_2	NH-ethyl
acyl	H	Br	NH_2	NH-acetyl
acyl	H	Br	NH_2	OH
acyl	H	Br	NH_2	OMe
acyl	H	Br	NH_2	OEt
acyl	H	Br	NH_2	O-cyclopropyl
acyl	H	Br	NH_2	O-acetyl
acyl	H	Br	NH_2	SH
acyl	H	Br	NH_2	SMe
acyl	H	Br	NH_2	SEt
acyl	H	Br	NH_2	S-cyclopropyl
acyl	H	Br	NH_2	F
acyl	H	Br	NH_2	Cl
acyl	H	Br	NH_2	Br
acyl	H	Br	NH_2	I
acyl	acyl	Br	NH_2	H
acyl	acyl	Br	NH_2	NH_2
acyl	acyl	Br	NH_2	NH-cyclopropyl
acyl	acyl	Br	NH_2	NH-methyl
acyl	acyl	Br	NH_2	NH-ethyl
acyl	acyl	Br	NH_2	NH-acetyl
acyl	acyl	Br	NH_2	OH
acyl	acyl	Br	NH_2	OMe
acyl	acyl	Br	NH_2	OEt
acyl	acyl	Br	NH_2	O-cyclopropyl
acyl	acyl	Br	NH_2	O-acetyl
acyl	acyl	Br	NH_2	SH
acyl	acyl	Br	NH_2	SMe
acyl	acyl	Br	NH_2	SEt
acyl	acyl	Br	NH_2	S-cyclopropyl
acyl	acyl	Br	NH_2	F
acyl	acyl	Br	NH_2	Cl
acyl	acyl	Br	NH_2	Br
acyl	acyl	Br	NH_2	I
acyl	amino acid	Br	NH_2	H
acyl	amino acid	Br	NH_2	NH_2
acyl	amino acid	Br	NH_2	NH-cyclopropyl
acyl	amino acid	Br	NH_2	NH-methyl
acyl	amino acid	Br	NH_2	NH-ethyl
acyl	amino acid	Br	NH_2	NH-acetyl
acyl	amino acid	Br	NH_2	OH
acyl	amino acid	Br	NH_2	OMe
acyl	amino acid	Br	NH_2	OEt
acyl	amino acid	Br	NH_2	O-cyclopropyl
acyl	amino acid	Br	NH_2	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	NH_2	SH
acyl	amino acid	Br	NH_2	SMe
acyl	amino acid	Br	NH_2	SEt
acyl	amino acid	Br	NH_2	S-cyclopropyl
acyl	amino acid	Br	NH_2	F
acyl	amino acid	Br	NH_2	Cl
acyl	amino acid	Br	NH_2	Br
acyl	amino acid	Br	NH_2	I
H	acyl	Br	NH_2	H
H	acyl	Br	NH_2	NH_2
H	acyl	Br	NH_2	NH-cyclopropyl
H	acyl	Br	NH_2	NH-methyl
H	acyl	Br	NH_2	NH-ethyl
H	acyl	Br	NH_2	NH-acetyl
H	acyl	Br	NH_2	OH
H	acyl	Br	NH_2	OMe
H	acyl	Br	NH_2	OEt
H	acyl	Br	NH_2	O-cyclopropyl
H	acyl	Br	NH_2	O-acetyl
H	acyl	Br	NH_2	SH
H	acyl	Br	NH_2	SMe
H	acyl	Br	NH_2	SEt
H	acyl	Br	NH_2	S-cyclopropyl
H	acyl	Br	NH_2	F
H	acyl	Br	NH_2	Cl
H	acyl	Br	NH_2	Br
H	acyl	Br	NH_2	I
H	amino acid	Br	NH_2	H
H	amino acid	Br	NH_2	NH_2
H	amino acid	Br	NH_2	NH-cyclopropyl
H	amino acid	Br	NH_2	NH-methyl
H	amino acid	Br	NH_2	NH-ethyl
H	amino acid	Br	NH_2	NH-acetyl
H	amino acid	Br	NH_2	OH
H	amino acid	Br	NH_2	OMe
H	amino acid	Br	NH_2	OEt
H	amino acid	Br	NH_2	O-cyclopropyl
H	amino acid	Br	NH_2	O-acetyl
H	amino acid	Br	NH_2	SH
H	amino acid	Br	NH_2	SMe
H	amino acid	Br	NH_2	SEt
H	amino acid	Br	NH_2	S-cyclopropyl
H	amino acid	Br	NH_2	F
H	amino acid	Br	NH_2	Cl
H	amino acid	Br	NH_2	Br
H	amino acid	Br	NH_2	I
amino acid	amino acid	Br	NH_2	H

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	NH_2	NH_2
amino acid	amino acid	Br	NH_2	NH-cyclopropyl
amino acid	amino acid	Br	NH_2	NH-methyl
amino acid	amino acid	Br	NH_2	NH-ethyl
amino acid	amino acid	Br	NH_2	NH-acetyl
amino acid	amino acid	Br	NH_2	OH
amino acid	amino acid	Br	NH_2	OMe
amino acid	amino acid	Br	NH_2	OEt
amino acid	amino acid	Br	NH_2	O-cyclopropyl
amino acid	amino acid	Br	NH_2	O-acetyl
amino acid	amino acid	Br	NH_2	SH
amino acid	amino acid	Br	NH_2	SMe
amino acid	amino acid	Br	NH_2	SEt
amino acid	amino acid	Br	NH_2	S-cyclopropyl
amino acid	amino acid	Br	NH_2	F
amino acid	amino acid	Br	NH_2	Cl
amino acid	amino acid	Br	NH_2	Br
amino acid	amino acid	Br	NH_2	I
amino acid	H	Br	NH_2	H
amino acid	H	Br	NH_2	NH_2
amino acid	H	Br	NH_2	NH-cyclopropyl
amino acid	H	Br	NH_2	NH-methyl
amino acid	H	Br	NH_2	NH-ethyl
amino acid	H	Br	NH_2	NH-acetyl
amino acid	H	Br	NH_2	OH
amino acid	H	Br	NH_2	OMe
amino acid	H	Br	NH_2	OEt
amino acid	H	Br	NH_2	O-cyclopropyl
amino acid	H	Br	NH_2	O-acetyl
amino acid	H	Br	NH_2	SH
amino acid	H	Br	NH_2	SMe
amino acid	H	Br	NH_2	SEt
amino acid	H	Br	NH_2	S-cyclopropyl
amino acid	H	Br	NH_2	F
amino acid	H	Br	NH_2	Cl
amino acid	H	Br	NH_2	Br
amino acid	H	Br	NH_2	I
amino acid	acyl	Br	NH_2	H
amino acid	acyl	Br	NH_2	NH_2
amino acid	acyl	Br	NH_2	NH-cyclopropyl
amino acid	acyl	Br	NH_2	NH-methyl
amino acid	acyl	Br	NH_2	NH-ethyl
amino acid	acyl	Br	NH_2	NH-acetyl
amino acid	acyl	Br	NH_2	OH
amino acid	acyl	Br	NH_2	OMe
amino acid	acyl	Br	NH_2	OEt
amino acid	acyl	Br	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	NH_2	O-acetyl
amino acid	acyl	Br	NH_2	SH
amino acid	acyl	Br	NH_2	SMe
amino acid	acyl	Br	NH_2	SEt
amino acid	acyl	Br	NH_2	S-cyclopropyl
amino acid	acyl	Br	NH_2	F
amino acid	acyl	Br	NH_2	Cl
amino acid	acyl	Br	NH_2	Br
amino acid	acyl	Br	NH_2	I
acyl	H	F	NH_2	H
acyl	H	F	NH_2	NH_2
acyl	H	F	NH_2	NH-cyclopropyl
acyl	H	F	NH_2	NH-methyl
acyl	H	F	NH_2	NH-ethyl
acyl	H	F	NH_2	NH-acetyl
acyl	H	F	NH_2	OH
acyl	H	F	NH_2	OMe
acyl	H	F	NH_2	OEt
acyl	H	F	NH_2	O-cyclopropyl
acyl	H	F	NH_2	O-acetyl
acyl	H	F	NH_2	SH
acyl	H	F	NH_2	SMe
acyl	H	F	NH_2	SEt
acyl	H	F	NH_2	S-cyclopropyl
acyl	H	F	NH_2	F
acyl	H	F	NH_2	Cl
acyl	H	F	NH_2	Br
acyl	H	F	NH_2	I
acyl	acyl	F	NH_2	H
acyl	acyl	F	NH_2	NH_2
acyl	acyl	F	NH_2	NH-cyclopropyl
acyl	acyl	F	NH_2	NH-methyl
acyl	acyl	F	NH_2	NH-ethyl
acyl	acyl	F	NH_2	NH-acetyl
acyl	acyl	F	NH_2	OH
acyl	acyl	F	NH_2	OMe
acyl	acyl	F	NH_2	OEt
acyl	acyl	F	NH_2	O-cyclopropyl
acyl	acyl	F	NH_2	O-acetyl
acyl	acyl	F	NH_2	SH
acyl	acyl	F	NH_2	SMe
acyl	acyl	F	NH_2	SEt
acyl	acyl	F	NH_2	S-cyclopropyl
acyl	acyl	F	NH_2	F
acyl	acyl	F	NH_2	Cl
acyl	acyl	F	NH_2	Br
acyl	acyl	F	NH_2	I

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	NH_2	H
acyl	amino acid	F	NH_2	NH_2
acyl	amino acid	F	NH_2	NH-cyclopropyl
acyl	amino acid	F	NH_2	NH-methyl
acyl	amino acid	F	NH_2	NH-ethyl
acyl	amino acid	F	NH_2	NH-acetyl
acyl	amino acid	F	NH_2	OH
acyl	amino acid	F	NH_2	OMe
acyl	amino acid	F	NH_2	OEt
acyl	amino acid	F	NH_2	O-cyclopropyl
acyl	amino acid	F	NH_2	O-acetyl
acyl	amino acid	F	NH_2	SH
acyl	amino acid	F	NH_2	SMe
acyl	amino acid	F	NH_2	SEt
acyl	amino acid	F	NH_2	S-cyclopropyl
acyl	amino acid	F	NH_2	F
acyl	amino acid	F	NH_2	Cl
acyl	amino acid	F	NH_2	Br
acyl	amino acid	F	NH_2	I
H	acyl	F	NH_2	H
H	acyl	F	NH_2	NH_2
H	acyl	F	NH_2	NH-cyclopropyl
H	acyl	F	NH_2	NH-methyl
H	acyl	F	NH_2	NH-ethyl
H	acyl	F	NH_2	NH-acetyl
H	acyl	F	NH_2	OH
H	acyl	F	NH_2	OMe
H	acyl	F	NH_2	OEt
H	acyl	F	NH_2	O-cyclopropyl
H	acyl	F	NH_2	O-acetyl
H	acyl	F	NH_2	SH
H	acyl	F	NH_2	SMe
H	acyl	F	NH_2	SEt
H	acyl	F	NH_2	S-cyclopropyl
H	acyl	F	NH_2	F
H	acyl	F	NH_2	Cl
H	acyl	F	NH_2	Br
H	acyl	F	NH_2	I
H	amino acid	F	NH_2	H
H	amino acid	F	NH_2	NH_2
H	amino acid	F	NH_2	NH-cyclopropyl
H	amino acid	F	NH_2	NH-methyl
H	amino acid	F	NH_2	NH-ethyl
H	amino acid	F	NH_2	NH-acetyl
H	amino acid	F	NH_2	OH
H	amino acid	F	NH_2	OMe
H	amino acid	F	NH_2	OEt

R^2	R^3	X^1	X^2	Y
H	amino acid	F	NH_2	O-cyclopropyl
H	amino acid	F	NH_2	O-acetyl
H	amino acid	F	NH_2	SH
H	amino acid	F	NH_2	SMe
H	amino acid	F	NH_2	SEt
H	amino acid	F	NH_2	S-cyclopropyl
H	amino acid	F	NH_2	F
H	amino acid	F	NH_2	Cl
H	amino acid	F	NH_2	Br
H	amino acid	F	NH_2	I
amino acid	amino acid	F	NH_2	H
amino acid	amino acid	F	NH_2	NH_2
amino acid	amino acid	F	NH_2	NH-cyclopropyl
amino acid	amino acid	F	NH_2	NH-methyl
amino acid	amino acid	F	NH_2	NH-ethyl
amino acid	amino acid	F	NH_2	NH-acetyl
amino acid	amino acid	F	NH_2	OH
amino acid	amino acid	F	NH_2	OMe
amino acid	amino acid	F	NH_2	OEt
amino acid	amino acid	F	NH_2	O-cyclopropyl
amino acid	amino acid	F	NH_2	O-acetyl
amino acid	amino acid	F	NH_2	SH
amino acid	amino acid	F	NH_2	SMe
amino acid	amino acid	F	NH_2	SEt
amino acid	amino acid	F	NH_2	S-cyclopropyl
amino acid	amino acid	F	NH_2	F
amino acid	amino acid	F	NH_2	Cl
amino acid	amino acid	F	NH_2	Br
amino acid	amino acid	F	NH_2	I
amino acid	H	F	NH_2	H
amino acid	H	F	NH_2	NH_2
amino acid	H	F	NH_2	NH-cyclopropyl
amino acid	H	F	NH_2	NH-methyl
amino acid	H	F	NH_2	NH-ethyl
amino acid	H	F	NH_2	NH-acetyl
amino acid	H	F	NH_2	OH
amino acid	H	F	NH_2	OMe
amino acid	H	F	NH_2	OEt
amino acid	H	F	NH_2	O-cyclopropyl
amino acid	H	F	NH_2	O-acetyl
amino acid	H	F	NH_2	SH
amino acid	H	F	NH_2	SMe
amino acid	H	F	NH_2	SEt
amino acid	H	F	NH_2	S-cyclopropyl
amino acid	H	F	NH_2	F
amino acid	H	F	NH_2	Cl
amino acid	H	F	NH_2	Br

R^2	R^3	X^1	X^2	Y
amino acid	H	F	NH_2	I
amino acid	acyl	F	NH_2	H
amino acid	acyl	F	NH_2	NH_2
amino acid	acyl	F	NH_2	NH-cyclopropyl
amino acid	acyl	F	NH_2	NH-methyl
amino acid	acyl	F	NH_2	NH-ethyl
amino acid	acyl	F	NH_2	NH-acetyl
amino acid	acyl	F	NH_2	OH
amino acid	acyl	F	NH_2	OMe
amino acid	acyl	F	NH_2	OEt
amino acid	acyl	F	NH_2	O-cyclopropyl
amino acid	acyl	F	NH_2	O-acetyl
amino acid	acyl	F	NH_2	SH
amino acid	acyl	F	NH_2	SMe
amino acid	acyl	F	NH_2	SEt
amino acid	acyl	F	NH_2	S-cyclopropyl
amino acid	acyl	F	NH_2	F
amino acid	acyl	F	NH_2	Cl
amino acid	acyl	F	NH_2	Br
amino acid	acyl	F	NH_2	I
acyl	H	NH_2	F	H
acyl	H	NH_2	F	NH_2
acyl	H	NH_2	F	NH-cyclopropyl
acyl	H	NH_2	F	NH-methyl
acyl	H	NH_2	F	NH-ethyl
acyl	H	NH_2	F	NH-acetyl
acyl	H	NH_2	F	OH
acyl	H	NH_2	F	OMe
acyl	H	NH_2	F	OEt
acyl	H	NH_2	F	O-cyclopropyl
acyl	H	NH_2	F	O-acetyl
acyl	H	NH_2	F	SH
acyl	H	NH_2	F	SMe
acyl	H	NH_2	F	SEt
acyl	H	NH_2	F	S-cyclopropyl
acyl	H	NH_2	F	F
acyl	H	NH_2	F	Cl
acyl	H	NH_2	F	Br
acyl	H	NH_2	F	I
acyl	acyl	NH_2	F	H
acyl	acyl	NH_2	F	NH_2
acyl	acyl	NH_2	F	NH-cyclopropyl
acyl	acyl	NH_2	F	NH-methyl
acyl	acyl	NH_2	F	NH-ethyl
acyl	acyl	NH_2	F	NH-acetyl
acyl	acyl	NH_2	F	OH
acyl	acyl	NH_2	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	F	OEt
acyl	acyl	NH_2	F	O-cyclopropyl
acyl	acyl	NH_2	F	O-acetyl
acyl	acyl	NH_2	F	SH
acyl	acyl	NH_2	F	SMe
acyl	acyl	NH_2	F	SEt
acyl	acyl	NH_2	F	S-cyclopropyl
acyl	acyl	NH_2	F	F
acyl	acyl	NH_2	F	Cl
acyl	acyl	NH_2	F	Br
acyl	acyl	NH_2	F	I
acyl	amino acid	NH_2	F	H
acyl	amino acid	NH_2	F	NH_2
acyl	amino acid	NH_2	F	NH-cyclopropyl
acyl	amino acid	NH_2	F	NH-methyl
acyl	amino acid	NH_2	F	NH-ethyl
acyl	amino acid	NH_2	F	NH-acetyl
acyl	amino acid	NH_2	F	OH
acyl	amino acid	NH_2	F	OMe
acyl	amino acid	NH_2	F	OEt
acyl	amino acid	NH_2	F	O-cyclopropyl
acyl	amino acid	NH_2	F	O-acetyl
acyl	amino acid	NH_2	F	SH
acyl	amino acid	NH_2	F	SMe
acyl	amino acid	NH_2	F	SEt
acyl	amino acid	NH_2	F	S-cyclopropyl
acyl	amino acid	NH_2	F	F
acyl	amino acid	NH_2	F	Cl
acyl	amino acid	NH_2	F	Br
acyl	amino acid	NH_2	F	I
H	acyl	NH_2	F	H
H	acyl	NH_2	F	NH_2
H	acyl	NH_2	F	NH-cyclopropyl
H	acyl	NH_2	F	NH-methyl
H	acyl	NH_2	F	NH-ethyl
H	acyl	NH_2	F	NH-acetyl
H	acyl	NH_2	F	OH
H	acyl	NH_2	F	OMe
H	acyl	NH_2	F	OEt
H	acyl	NH_2	F	O-cyclopropyl
H	acyl	NH_2	F	O-acetyl
H	acyl	NH_2	F	SH
H	acyl	NH_2	F	SMe
H	acyl	NH_2	F	SEt
H	acyl	NH_2	F	S-cyclopropyl
H	acyl	NH_2	F	F
H	acyl	NH_2	F	Cl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	F	Br
H	acyl	NH_2	F	I
H	amino acid	NH_2	F	H
H	amino acid	NH_2	F	NH_2
H	amino acid	NH_2	F	NH-cyclopropyl
H	amino acid	NH_2	F	NH-methyl
H	amino acid	NH_2	F	NH-ethyl
H	amino acid	NH_2	F	NH-acetyl
H	amino acid	NH_2	F	OH
H	amino acid	NH_2	F	OMe
H	amino acid	NH_2	F	OEt
H	amino acid	NH_2	F	O-cyclopropyl
H	amino acid	NH_2	F	O-acetyl
H	amino acid	NH_2	F	SH
H	amino acid	NH_2	F	SMe
H	amino acid	NH_2	F	SEt
H	amino acid	NH_2	F	S-cyclopropyl
H	amino acid	NH_2	F	F
H	amino acid	NH_2	F	Cl
H	amino acid	NH_2	F	Br
H	amino acid	NH_2	F	I
amino acid	amino acid	NH_2	F	H
amino acid	amino acid	NH_2	F	NH_2
amino acid	amino acid	NH_2	F	NH-cyclopropyl
amino acid	amino acid	NH_2	F	NH-methyl
amino acid	amino acid	NH_2	F	NH-ethyl
amino acid	amino acid	NH_2	F	NH-acetyl
amino acid	amino acid	NH_2	F	OH
amino acid	amino acid	NH_2	F	OMe
amino acid	amino acid	NH_2	F	OEt
amino acid	amino acid	NH_2	F	O-cyclopropyl
amino acid	amino acid	NH_2	F	O-acetyl
amino acid	amino acid	NH_2	F	SH
amino acid	amino acid	NH_2	F	SMe
amino acid	amino acid	NH_2	F	SEt
amino acid	amino acid	NH_2	F	S-cyclopropyl
amino acid	amino acid	NH_2	F	F
amino acid	amino acid	NH_2	F	Cl
amino acid	amino acid	NH_2	F	Br
amino acid	amino acid	NH_2	F	I
amino acid	H	NH_2	F	H
amino acid	H	NH_2	F	NH_2
amino acid	H	NH_2	F	NH-cyclopropyl
amino acid	H	NH_2	F	NH-methyl
amino acid	H	NH_2	F	NH-ethyl
amino acid	H	NH_2	F	NH-acetyl
amino acid	H	NH_2	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	F	OMe
amino acid	H	NH_2	F	OEt
amino acid	H	NH_2	F	O-cyclopropyl
amino acid	H	NH_2	F	O-acetyl
amino acid	H	NH_2	F	SH
amino acid	H	NH_2	F	SMe
amino acid	H	NH_2	F	SEt
amino acid	H	NH_2	F	S-cyclopropyl
amino acid	H	NH_2	F	F
amino acid	H	NH_2	F	Cl
amino acid	H	NH_2	F	Br
amino acid	H	NH_2	F	I
amino acid	acyl	NH_2	F	H
amino acid	acyl	NH_2	F	NH_2
amino acid	acyl	NH_2	F	NH-cyclopropyl
amino acid	acyl	NH_2	F	NH-methyl
amino acid	acyl	NH_2	F	NH-ethyl
amino acid	acyl	NH_2	F	NH-acetyl
amino acid	acyl	NH_2	F	OH
amino acid	acyl	NH_2	F	OMe
amino acid	acyl	NH_2	F	OEt
amino acid	acyl	NH_2	F	O-cyclopropyl
amino acid	acyl	NH_2	F	O-acetyl
amino acid	acyl	NH_2	F	SH
amino acid	acyl	NH_2	F	SMe
amino acid	acyl	NH_2	F	SEt
amino acid	acyl	NH_2	F	S-cyclopropyl
amino acid	acyl	NH_2	F	F
amino acid	acyl	NH_2	F	Cl
amino acid	acyl	NH_2	F	Br
amino acid	acyl	NH_2	F	I
acyl	H	NH_2	Br	H
acyl	H	NH_2	Br	NH_2
acyl	H	NH_2	Br	NH-cyclopropyl
acyl	H	NH_2	Br	NH-methyl
acyl	H	NH_2	Br	NH-ethyl
acyl	H	NH_2	Br	NH-acetyl
acyl	H	NH_2	Br	OH
acyl	H	NH_2	Br	OMe
acyl	H	NH_2	Br	OEt
acyl	H	NH_2	Br	O-cyclopropyl
acyl	H	NH_2	Br	O-acetyl
acyl	H	NH_2	Br	SH
acyl	H	NH_2	Br	SMe
acyl	H	NH_2	Br	SEt
acyl	H	NH_2	Br	S-cyclopropyl
acyl	H	NH_2	Br	F

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Br	Cl
acyl	H	NH_2	Br	Br
acyl	H	NH_2	Br	I
acyl	acyl	NH_2	Br	H
acyl	acyl	NH_2	Br	NH_2
acyl	acyl	NH_2	Br	NH-cyclopropyl
acyl	acyl	NH_2	Br	NH-methyl
acyl	acyl	NH_2	Br	NH-ethyl
acyl	acyl	NH_2	Br	NH-acetyl
acyl	acyl	NH_2	Br	OH
acyl	acyl	NH_2	Br	OMe
acyl	acyl	NH_2	Br	OEt
acyl	acyl	NH_2	Br	O-cyclopropyl
acyl	acyl	NH_2	Br	O-acetyl
acyl	acyl	NH_2	Br	SH
acyl	acyl	NH_2	Br	SMe
acyl	acyl	NH_2	Br	SEt
acyl	acyl	NH_2	Br	S-cyclopropyl
acyl	acyl	NH_2	Br	F
acyl	acyl	NH_2	Br	Cl
acyl	acyl	NH_2	Br	Br
acyl	acyl	NH_2	Br	I
acyl	amino acid	NH_2	Br	H
acyl	amino acid	NH_2	Br	NH_2
acyl	amino acid	NH_2	Br	NH-cyclopropyl
acyl	amino acid	NH_2	Br	NH-methyl
acyl	amino acid	NH_2	Br	NH-ethyl
acyl	amino acid	NH_2	Br	NH-acetyl
acyl	amino acid	NH_2	Br	OH
acyl	amino acid	NH_2	Br	OMe
acyl	amino acid	NH_2	Br	OEt
acyl	amino acid	NH_2	Br	O-cyclopropyl
acyl	amino acid	NH_2	Br	O-acetyl
acyl	amino acid	NH_2	Br	SH
acyl	amino acid	NH_2	Br	SMe
acyl	amino acid	NH_2	Br	SEt
acyl	amino acid	NH_2	Br	S-cyclopropyl
acyl	amino acid	NH_2	Br	F
acyl	amino acid	NH_2	Br	Cl
acyl	amino acid	NH_2	Br	Br
acyl	amino acid	NH_2	Br	I
H	acyl	NH_2	Br	H
H	acyl	NH_2	Br	NH_2
H	acyl	NH_2	Br	NH-cyclopropyl
H	acyl	NH_2	Br	NH-methyl
H	acyl	NH_2	Br	NH-ethyl
H	acyl	NH_2	Br	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	Br	OH
H	acyl	NH_2	Br	OMe
H	acyl	NH_2	Br	OEt
H	acyl	NH_2	Br	O-cyclopropyl
H	acyl	NH_2	Br	O-acetyl
H	acyl	NH_2	Br	SH
H	acyl	NH_2	Br	SMe
H	acyl	NH_2	Br	SEt
H	acyl	NH_2	Br	S-cyclopropyl
H	acyl	NH_2	Br	F
H	acyl	NH_2	Br	Cl
H	acyl	NH_2	Br	Br
H	acyl	NH_2	Br	I
H	amino acid	NH_2	Br	H
H	amino acid	NH_2	Br	NH_2
H	amino acid	NH_2	Br	NH-cyclopropyl
H	amino acid	NH_2	Br	NH-methyl
H	amino acid	NH_2	Br	NH-ethyl
H	amino acid	NH_2	Br	NH-acetyl
H	amino acid	NH_2	Br	OH
H	amino acid	NH_2	Br	OMe
H	amino acid	NH_2	Br	OEt
H	amino acid	NH_2	Br	O-cyclopropyl
H	amino acid	NH_2	Br	O-acetyl
H	amino acid	NH_2	Br	SH
H	amino acid	NH_2	Br	SMe
H	amino acid	NH_2	Br	SEt
H	amino acid	NH_2	Br	S-cyclopropyl
H	amino acid	NH_2	Br	F
H	amino acid	NH_2	Br	Cl
H	amino acid	NH_2	Br	Br
H	amino acid	NH_2	Br	I
amino acid	amino acid	NH_2	Br	H
amino acid	amino acid	NH_2	Br	NH_2
amino acid	amino acid	NH_2	Br	NH-cyclopropyl
amino acid	amino acid	NH_2	Br	NH-methyl
amino acid	amino acid	NH_2	Br	NH-ethyl
amino acid	amino acid	NH_2	Br	NH-acetyl
amino acid	amino acid	NH_2	Br	OH
amino acid	amino acid	NH_2	Br	OMe
amino acid	amino acid	NH_2	Br	OEt
amino acid	amino acid	NH_2	Br	O-cyclopropyl
amino acid	amino acid	NH_2	Br	O-acetyl
amino acid	amino acid	NH_2	Br	SH
amino acid	amino acid	NH_2	Br	SMe
amino acid	amino acid	NH_2	Br	SEt
amino acid	amino acid	NH_2	Br	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Br	F
amino acid	amino acid	NH_2	Br	Cl
amino acid	amino acid	NH_2	Br	Br
amino acid	amino acid	NH_2	Br	I
amino acid	H	NH_2	Br	H
amino acid	H	NH_2	Br	NH_2
amino acid	H	NH_2	Br	NH-cyclopropyl
amino acid	H	NH_2	Br	NH-methyl
amino acid	H	NH_2	Br	NH-ethyl
amino acid	H	NH_2	Br	NH-acetyl
amino acid	H	NH_2	Br	OH
amino acid	H	NH_2	Br	OMe
amino acid	H	NH_2	Br	OEt
amino acid	H	NH_2	Br	O-cyclopropyl
amino acid	H	NH_2	Br	O-acetyl
amino acid	H	NH_2	Br	SH
amino acid	H	NH_2	Br	SMe
amino acid	H	NH_2	Br	SEt
amino acid	H	NH_2	Br	S-cyclopropyl
amino acid	H	NH_2	Br	F
amino acid	H	NH_2	Br	Cl
amino acid	H	NH_2	Br	Br
amino acid	H	NH_2	Br	I
amino acid	acyl	NH_2	Br	H
amino acid	acyl	NH_2	Br	NH_2
amino acid	acyl	NH_2	Br	NH-cyclopropyl
amino acid	acyl	NH_2	Br	NH-methyl
amino acid	acyl	NH_2	Br	NH-ethyl
amino acid	acyl	NH_2	Br	NH-acetyl
amino acid	acyl	NH_2	Br	OH
amino acid	acyl	NH_2	Br	OMe
amino acid	acyl	NH_2	Br	OEt
amino acid	acyl	NH_2	Br	O-cyclopropyl
amino acid	acyl	NH_2	Br	O-acetyl
amino acid	acyl	NH_2	Br	SH
amino acid	acyl	NH_2	Br	SMe
amino acid	acyl	NH_2	Br	SEt
amino acid	acyl	NH_2	Br	S-cyclopropyl
amino acid	acyl	NH_2	Br	F
amino acid	acyl	NH_2	Br	Cl
amino acid	acyl	NH_2	Br	Br
amino acid	acyl	NH_2	Br	I
acyl	H	NH_2	Cl	H
acyl	H	NH_2	Cl	NH_2
acyl	H	NH_2	Cl	NH-cyclopropyl
acyl	H	NH_2	Cl	NH-methyl
acyl	H	NH_2	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Cl	NH-acetyl
acyl	H	NH_2	Cl	OH
acyl	H	NH_2	Cl	OMe
acyl	H	NH_2	Cl	OEt
acyl	H	NH_2	Cl	O-cyclopropyl
acyl	H	NH_2	Cl	O-acetyl
acyl	H	NH_2	Cl	SH
acyl	H	NH_2	Cl	SMe
acyl	H	NH_2	Cl	SEt
acyl	H	NH_2	Cl	S-cyclopropyl
acyl	H	NH_2	Cl	F
acyl	H	NH_2	Cl	Cl
acyl	H	NH_2	Cl	Br
acyl	H	NH_2	Cl	I
acyl	acyl	NH_2	Cl	H
acyl	acyl	NH_2	Cl	NH_2
acyl	acyl	NH_2	Cl	NH-cyclopropyl
acyl	acyl	NH_2	Cl	NH-methyl
acyl	acyl	NH_2	Cl	NH-ethyl
acyl	acyl	NH_2	Cl	NH-acetyl
acyl	acyl	NH_2	Cl	OH
acyl	acyl	NH_2	Cl	OMe
acyl	acyl	NH_2	Cl	OEt
acyl	acyl	NH_2	Cl	O-cyclopropyl
acyl	acyl	NH_2	Cl	O-acetyl
acyl	acyl	NH_2	Cl	SH
acyl	acyl	NH_2	Cl	SMe
acyl	acyl	NH_2	Cl	SEt
acyl	acyl	NH_2	Cl	S-cyclopropyl
acyl	acyl	NH_2	Cl	F
acyl	acyl	NH_2	Cl	Cl
acyl	acyl	NH_2	Cl	Br
acyl	acyl	NH_2	Cl	I
acyl	amino acid	NH_2	Cl	H
acyl	amino acid	NH_2	Cl	NH_2
acyl	amino acid	NH_2	Cl	NH-cyclopropyl
acyl	amino acid	NH_2	Cl	NH-methyl
acyl	amino acid	NH_2	Cl	NH-ethyl
acyl	amino acid	NH_2	Cl	NH-acetyl
acyl	amino acid	NH_2	Cl	OH
acyl	amino acid	NH_2	Cl	OMe
acyl	amino acid	NH_2	Cl	OEt
acyl	amino acid	NH_2	Cl	O-cyclopropyl
acyl	amino acid	NH_2	Cl	O-acetyl
acyl	amino acid	NH_2	Cl	SH
acyl	amino acid	NH_2	Cl	SMe
acyl	amino acid	NH_2	Cl	SEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	Cl	S-cyclopropyl
acyl	amino acid	NH_2	Cl	F
acyl	amino acid	NH_2	Cl	Cl
acyl	amino acid	NH_2	Cl	Br
acyl	amino acid	NH_2	Cl	I
H	acyl	NH_2	Cl	H
H	acyl	NH_2	Cl	NH_2
H	acyl	NH_2	Cl	NH-cyclopropyl
H	acyl	NH_2	Cl	NH-methyl
H	acyl	NH_2	Cl	NH-ethyl
H	acyl	NH_2	Cl	NH-acetyl
H	acyl	NH_2	Cl	OH
H	acyl	NH_2	Cl	OMe
H	acyl	NH_2	Cl	OEt
H	acyl	NH_2	Cl	O-cyclopropyl
H	acyl	NH_2	Cl	O-acetyl
H	acyl	NH_2	Cl	SH
H	acyl	NH_2	Cl	SMe
H	acyl	NH_2	Cl	SEt
H	acyl	NH_2	Cl	S-cyclopropyl
H	acyl	NH_2	Cl	F
H	acyl	NH_2	Cl	Cl
H	acyl	NH_2	Cl	Br
H	acyl	NH_2	Cl	I
H	amino acid	NH_2	Cl	H
H	amino acid	NH_2	Cl	NH_2
H	amino acid	NH_2	Cl	NH-cyclopropyl
H	amino acid	NH_2	Cl	NH-methyl
H	amino acid	NH_2	Cl	NH-ethyl
H	amino acid	NH_2	Cl	NH-acetyl
H	amino acid	NH_2	Cl	OH
H	amino acid	NH_2	Cl	OMe
H	amino acid	NH_2	Cl	OEt
H	amino acid	NH_2	Cl	O-cyclopropyl
H	amino acid	NH_2	Cl	O-acetyl
H	amino acid	NH_2	Cl	SH
H	amino acid	NH_2	Cl	SMe
H	amino acid	NH_2	Cl	SEt
H	amino acid	NH_2	Cl	S-cyclopropyl
H	amino acid	NH_2	Cl	F
H	amino acid	NH_2	Cl	Cl
H	amino acid	NH_2	Cl	Br
H	amino acid	NH_2	Cl	I
amino acid	amino acid	NH_2	Cl	H
amino acid	amino acid	NH_2	Cl	NH_2
amino acid	amino acid	NH_2	Cl	NH-cyclopropyl
amino acid	amino acid	NH_2	Cl	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Cl	NH-ethyl
amino acid	amino acid	NH_2	Cl	NH-acetyl
amino acid	amino acid	NH_2	Cl	OH
amino acid	amino acid	NH_2	Cl	OMe
amino acid	amino acid	NH_2	Cl	OEt
amino acid	amino acid	NH_2	Cl	O-cyclopropyl
amino acid	amino acid	NH_2	Cl	O-acetyl
amino acid	amino acid	NH_2	Cl	SH
amino acid	amino acid	NH_2	Cl	SMe
amino acid	amino acid	NH_2	Cl	SEt
amino acid	amino acid	NH_2	Cl	S-cyclopropyl
amino acid	amino acid	NH_2	Cl	F
amino acid	amino acid	NH_2	Cl	Cl
amino acid	amino acid	NH_2	Cl	Br
amino acid	amino acid	NH_2	Cl	I
amino acid	H	NH_2	Cl	H
amino acid	H	NH_2	Cl	NH_2
amino acid	H	NH_2	Cl	NH-cyclopropyl
amino acid	H	NH_2	Cl	NH-methyl
amino acid	H	NH_2	Cl	NH-ethyl
amino acid	H	NH_2	Cl	NH-acetyl
amino acid	H	NH_2	Cl	OH
amino acid	H	NH_2	Cl	OMe
amino acid	H	NH_2	Cl	OEt
amino acid	H	NH_2	Cl	O-cyclopropyl
amino acid	H	NH_2	Cl	O-acetyl
amino acid	H	NH_2	Cl	SH
amino acid	H	NH_2	Cl	SMe
amino acid	H	NH_2	Cl	SEt
amino acid	H	NH_2	Cl	S-cyclopropyl
amino acid	H	NH_2	Cl	F
amino acid	H	NH_2	Cl	Cl
amino acid	H	NH_2	Cl	Br
amino acid	H	NH_2	Cl	I
amino acid	acyl	NH_2	Cl	H
amino acid	acyl	NH_2	Cl	NH_2
amino acid	acyl	NH_2	Cl	NH-cyclopropyl
amino acid	acyl	NH_2	Cl	NH-methyl
amino acid	acyl	NH_2	Cl	NH-ethyl
amino acid	acyl	NH_2	Cl	NH-acetyl
amino acid	acyl	NH_2	Cl	OH
amino acid	acyl	NH_2	Cl	OMe
amino acid	acyl	NH_2	Cl	OEt
amino acid	acyl	NH_2	Cl	O-cyclopropyl
amino acid	acyl	NH_2	Cl	O-acetyl
amino acid	acyl	NH_2	Cl	SH
amino acid	acyl	NH_2	Cl	SMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	Cl	SEt
amino acid	acyl	NH_2	Cl	S-cyclopropyl
amino acid	acyl	NH_2	Cl	F
amino acid	acyl	NH_2	Cl	Cl
amino acid	acyl	NH_2	Cl	Br
amino acid	acyl	NH_2	Cl	I
acyl	H	NH_2	SH	H
acyl	H	NH_2	SH	NH_2
acyl	H	NH_2	SH	NH-cyclopropyl
acyl	H	NH_2	SH	NH-methyl
acyl	H	NH_2	SH	NH-ethyl
acyl	H	NH_2	SH	NH-acetyl
acyl	H	NH_2	SH	OH
acyl	H	NH_2	SH	OMe
acyl	H	NH_2	SH	OEt
acyl	H	NH_2	SH	O-cyclopropyl
acyl	H	NH_2	SH	O-acetyl
acyl	H	NH_2	SH	SH
acyl	H	NH_2	SH	SMe
acyl	H	NH_2	SH	SEt
acyl	H	NH_2	SH	S-cyclopropyl
acyl	H	NH_2	SH	F
acyl	H	NH_2	SH	Cl
acyl	H	NH_2	SH	Br
acyl	H	NH_2	SH	I
acyl	acyl	NH_2	SH	H
acyl	acyl	NH_2	SH	NH_2
acyl	acyl	NH_2	SH	NH-cyclopropyl
acyl	acyl	NH_2	SH	NH-methyl
acyl	acyl	NH_2	SH	NH-ethyl
acyl	acyl	NH_2	SH	NH-acetyl
acyl	acyl	NH_2	SH	OH
acyl	acyl	NH_2	SH	OMe
acyl	acyl	NH_2	SH	OEt
acyl	acyl	NH_2	SH	O-cyclopropyl
acyl	acyl	NH_2	SH	O-acetyl
acyl	acyl	NH_2	SH	SH
acyl	acyl	NH_2	SH	SMe
acyl	acyl	NH_2	SH	SEt
acyl	acyl	NH_2	SH	S-cyclopropyl
acyl	acyl	NH_2	SH	F
acyl	acyl	NH_2	SH	Cl
acyl	acyl	NH_2	SH	Br
acyl	acyl	NH_2	SH	I
acyl	amino acid	NH_2	SH	H
acyl	amino acid	NH_2	SH	NH_2
acyl	amino acid	NH_2	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	SH	NH-methyl
acyl	amino acid	NH_2	SH	NH-ethyl
acyl	amino acid	NH_2	SH	NH-acetyl
acyl	amino acid	NH_2	SH	OH
acyl	amino acid	NH_2	SH	OMe
acyl	amino acid	NH_2	SH	OEt
acyl	amino acid	NH_2	SH	O-cyclopropyl
acyl	amino acid	NH_2	SH	O-acetyl
acyl	amino acid	NH_2	SH	SH
acyl	amino acid	NH_2	SH	SMe
acyl	amino acid	NH_2	SH	SEt
acyl	amino acid	NH_2	SH	S-cyclopropyl
acyl	amino acid	NH_2	SH	F
acyl	amino acid	NH_2	SH	Cl
acyl	amino acid	NH_2	SH	Br
acyl	amino acid	NH_2	SH	I
H	acyl	NH_2	SH	H
H	acyl	NH_2	SH	NH_2
H	acyl	NH_2	SH	NH-cyclopropyl
H	acyl	NH_2	SH	NH-methyl
H	acyl	NH_2	SH	NH-ethyl
H	acyl	NH_2	SH	NH-acetyl
H	acyl	NH_2	SH	OH
H	acyl	NH_2	SH	OMe
H	acyl	NH_2	SH	OEt
H	acyl	NH_2	SH	O-cyclopropyl
H	acyl	NH_2	SH	O-acetyl
H	acyl	NH_2	SH	SH
H	acyl	NH_2	SH	SMe
H	acyl	NH_2	SH	SEt
H	acyl	NH_2	SH	S-cyclopropyl
H	acyl	NH_2	SH	F
H	acyl	NH_2	SH	Cl
H	acyl	NH_2	SH	Br
H	acyl	NH_2	SH	I
H	amino acid	NH_2	SH	H
H	amino acid	NH_2	SH	NH_2
H	amino acid	NH_2	SH	NH-cyclopropyl
H	amino acid	NH_2	SH	NH-methyl
H	amino acid	NH_2	SH	NH-ethyl
H	amino acid	NH_2	SH	NH-acetyl
H	amino acid	NH_2	SH	OH
H	amino acid	NH_2	SH	OMe
H	amino acid	NH_2	SH	OEt
H	amino acid	NH_2	SH	O-cyclopropyl
H	amino acid	NH_2	SH	O-acetyl
H	amino acid	NH_2	SH	SH

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	SH	SMe
H	amino acid	NH_2	SH	SEt
H	amino acid	NH_2	SH	S-cyclopropyl
H	amino acid	NH_2	SH	F
H	amino acid	NH_2	SH	Cl
H	amino acid	NH_2	SH	Br
H	amino acid	NH_2	SH	I
amino acid	amino acid	NH_2	SH	H
amino acid	amino acid	NH_2	SH	NH_2
amino acid	amino acid	NH_2	SH	NH-cyclopropyl
amino acid	amino acid	NH_2	SH	NH-methyl
amino acid	amino acid	NH_2	SH	NH-ethyl
amino acid	amino acid	NH_2	SH	NH-acetyl
amino acid	amino acid	NH_2	SH	OH
amino acid	amino acid	NH_2	SH	OMe
amino acid	amino acid	NH_2	SH	OEt
amino acid	amino acid	NH_2	SH	O-cyclopropyl
amino acid	amino acid	NH_2	SH	O-acetyl
amino acid	amino acid	NH_2	SH	SH
amino acid	amino acid	NH_2	SH	SMe
amino acid	amino acid	NH_2	SH	SEt
amino acid	amino acid	NH_2	SH	S-cyclopropyl
amino acid	amino acid	NH_2	SH	F
amino acid	amino acid	NH_2	SH	Cl
amino acid	amino acid	NH_2	SH	Br
amino acid	amino acid	NH_2	SH	I
amino acid	H	NH_2	SH	H
amino acid	H	NH_2	SH	NH_2
amino acid	H	NH_2	SH	NH-cyclopropyl
amino acid	H	NH_2	SH	NH-methyl
amino acid	H	NH_2	SH	NH-ethyl
amino acid	H	NH_2	SH	NH-acetyl
amino acid	H	NH_2	SH	OH
amino acid	H	NH_2	SH	OMe
amino acid	H	NH_2	SH	OEt
amino acid	H	NH_2	SH	O-cyclopropyl
amino acid	H	NH_2	SH	O-acetyl
amino acid	H	NH_2	SH	SH
amino acid	H	NH_2	SH	SMe
amino acid	H	NH_2	SH	SEt
amino acid	H	NH_2	SH	S-cyclopropyl
amino acid	H	NH_2	SH	F
amino acid	H	NH_2	SH	Cl
amino acid	H	NH_2	SH	Br
amino acid	H	NH_2	SH	I
amino acid	acyl	NH_2	SH	H
amino acid	acyl	NH_2	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	SH	NH-cyclopropyl
amino acid	acyl	NH_2	SH	NH-methyl
amino acid	acyl	NH_2	SH	NH-ethyl
amino acid	acyl	NH_2	SH	NH-acetyl
amino acid	acyl	NH_2	SH	OH
amino acid	acyl	NH_2	SH	OMe
amino acid	acyl	NH_2	SH	OEt
amino acid	acyl	NH_2	SH	O-cyclopropyl
amino acid	acyl	NH_2	SH	O-acetyl
amino acid	acyl	NH_2	SH	SH
amino acid	acyl	NH_2	SH	SMe
amino acid	acyl	NH_2	SH	SEt
amino acid	acyl	NH_2	SH	S-cyclopropyl
amino acid	acyl	NH_2	SH	F
amino acid	acyl	NH_2	SH	Cl
amino acid	acyl	NH_2	SH	Br
amino acid	acyl	NH_2	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H

R^2	R^3	X^1	X^2	Y
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	F	Br	H
acyl	H	F	Br	NH_2
acyl	H	F	Br	NH-cyclopropyl
acyl	H	F	Br	NH-methyl
acyl	H	F	Br	NH-ethyl
acyl	H	F	Br	NH-acetyl
acyl	H	F	Br	OH
acyl	H	F	Br	OMe
acyl	H	F	Br	OEt
acyl	H	F	Br	O-cyclopropyl
acyl	H	F	Br	O-acetyl
acyl	H	F	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br
acyl	H	F	Br	I

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	Br	H
acyl	acyl	F	Br	NH_2
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	F	Br	Br
acyl	acyl	F	Br	I
acyl	amino acid	F	Br	H
acyl	amino acid	F	Br	NH_2
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	NH-ethyl
acyl	amino acid	F	Br	NH-acetyl
acyl	amino acid	F	Br	OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt
acyl	amino acid	F	Br	O-cyclopropyl
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	H
H	acyl	F	Br	NH_2
H	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
H	acyl	F	Br	OEt

R^2	R^3	X^1	X^2	Y
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
H	acyl	F	Br	F
H	acyl	F	Br	Cl
H	acyl	F	Br	Br
H	acyl	F	Br	I
H	amino acid	F	Br	H
H	amino acid	F	Br	NH_2
H	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
H	amino acid	F	Br	OEt
H	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH
H	amino acid	F	Br	SMe
H	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F
H	amino acid	F	Br	Cl
H	amino acid	F	Br	Br
H	amino acid	F	Br	I
amino acid	amino acid	F	Br	H
amino acid	amino acid	F	Br	NH_2
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	OH
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F
amino acid	amino acid	F	Br	Cl
amino acid	amino acid	F	Br	Br

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	Br	I
amino acid	H	F	Br	H
amino acid	H	F	Br	NH_2
amino acid	H	F	Br	NH-cyclopropyl
amino acid	H	F	Br	NH-methyl
amino acid	H	F	Br	NH-ethyl
amino acid	H	F	Br	NH-acetyl
amino acid	H	F	Br	OH
amino acid	H	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	H	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	H	F	Br	SEt
amino acid	H	F	Br	S-cyclopropyl
amino acid	H	F	Br	F
amino acid	H	F	Br	Cl
amino acid	H	F	Br	Br
amino acid	H	F	Br	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH_2
amino acid	acyl	F	Br	NH-cyclopropyl
amino acid	acyl	F	Br	NH-methyl
amino acid	acyl	F	Br	NH-ethyl
amino acid	acyl	F	Br	NH-acetyl
amino acid	acyl	F	Br	OH
amino acid	acyl	F	Br	OMe
amino acid	acyl	F	Br	OEt
amino acid	acyl	F	Br	O-cyclopropyl
amino acid	acyl	F	Br	O-acetyl
amino acid	acyl	F	Br	SH
amino acid	acyl	F	Br	SMe
amino acid	acyl	F	Br	SEt
amino acid	acyl	F	Br	S-cyclopropyl
amino acid	acyl	F	Br	F
amino acid	acyl	F	Br	Cl
amino acid	acyl	F	Br	Br
amino acid	acyl	F	Br	I
acyl	H	Br	F	H
acyl	H	Br	F	NH_2
acyl	H	Br	F	NH-cyclopropyl
acyl	H	Br	F	NH-methyl
acyl	H	Br	F	NH-ethyl
acyl	H	Br	F	NH-acetyl
acyl	H	Br	F	OH
acyl	H	Br	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	H	Br	F	OEt
acyl	H	Br	F	O-cyclopropyl
acyl	H	Br	F	O-acetyl
acyl	H	Br	F	SH
acyl	H	Br	F	SMe
acyl	H	Br	F	SEt
acyl	H	Br	F	S-cyclopropyl
acyl	H	Br	F	F
acyl	H	Br	F	Cl
acyl	H	Br	F	Br
acyl	H	Br	F	I
acyl	acyl	Br	F	H
acyl	acyl	Br	F	NH_2
acyl	acyl	Br	F	NH-cyclopropyl
acyl	acyl	Br	F	NH-methyl
acyl	acyl	Br	F	NH-ethyl
acyl	acyl	Br	F	NH-acetyl
acyl	acyl	Br	F	OH
acyl	acyl	Br	F	OMe
acyl	acyl	Br	F	OEt
acyl	acyl	Br	F	O-cyclopropyl
acyl	acyl	Br	F	O-acetyl
acyl	acyl	Br	F	SH
acyl	acyl	Br	F	SMe
acyl	acyl	Br	F	SEt
acyl	acyl	Br	F	S-cyclopropyl
acyl	acyl	Br	F	F
acyl	acyl	Br	F	Cl
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	H
acyl	amino acid	Br	F	NH_2
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F
acyl	amino acid	Br	F	Cl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	F	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
H	acyl	Br	F	NH_2
H	acyl	Br	F	NH-cyclopropyl
H	acyl	Br	F	NH-methyl
H	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
H	acyl	Br	F	OH
H	acyl	Br	F	OMe
H	acyl	Br	F	OEt
H	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
H	acyl	Br	F	SMe
H	acyl	Br	F	SEt
H	acyl	Br	F	S-cyclopropyl
H	acyl	Br	F	F
H	acyl	Br	F	Cl
H	acyl	Br	F	Br
H	acyl	Br	F	I
H	amino acid	Br	F	H
H	amino acid	Br	F	NH_2
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid	Br	F	NH-ethyl
H	amino acid	Br	F	NH-acetyl
H	amino acid	Br	F	OH
H	amino acid	Br	F	OMe
H	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
H	amino acid	Br	F	O-acetyl
H	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
H	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
H	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH_2
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH_2
amino acid	H	Br	F	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	O-cyclopropyl
amino acid	H	Br	F	O-acetyl
amino acid	H	Br	F	SH
amino acid	H	Br	F	SMe
amino acid	H	Br	F	SEt
amino acid	H	Br	F	S-cyclopropyl
amino acid	H	Br	F	F
amino acid	H	Br	F	Cl
amino acid	H	Br	F	Br
amino acid	H	Br	F	I
amino acid	acyl	Br	F	H
amino acid	acyl	Br	F	NH_2
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	OH
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	F	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl
amino acid	acyl	Br	F	F

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	F	Cl
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	F	Cl	H
acyl	H	F	Cl	NH_2
acyl	H	F	Cl	NH-cyclopropyl
acyl	H	F	Cl	NH-methyl
acyl	H	F	Cl	NH-ethyl
acyl	H	F	Cl	NH-acetyl
acyl	H	F	Cl	OH
acyl	H	F	Cl	OMe
acyl	H	F	Cl	OEt
acyl	H	F	Cl	O-cyclopropyl
acyl	H	F	Cl	O-acetyl
acyl	H	F	Cl	SH
acyl	H	F	Cl	SMe
acyl	H	F	Cl	SEt
acyl	H	F	Cl	S-cyclopropyl
acyl	H	F	Cl	F
acyl	H	F	Cl	Cl
acyl	H	F	Cl	Br
acyl	H	F	Cl	I
acyl	acyl	F	Cl	H
acyl	acyl	F	Cl	NH_2
acyl	acyl	F	Cl	NH-cyclopropyl
acyl	acyl	F	Cl	NH-methyl
acyl	acyl	F	Cl	NH-ethyl
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	Cl	OH
acyl	acyl	F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	I
acyl	amino acid	F	Cl	H
acyl	amino acid	F	Cl	NH_2
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F	Cl	NH-methyl
acyl	amino acid	F	Cl	NH-ethyl
acyl	amino acid	F	Cl	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	Cl	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
acyl	amino acid	F	Cl	S-cyclopropyl
acyl	amino acid	F	Cl	F
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
H	acyl	F	Cl	H
H	acyl	F	Cl	NH_2
H	acyl	F	Cl	NH-cyclopropyl
H	acyl	F	Cl	NH-methyl
H	acyl	F	Cl	NH-ethyl
H	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	OH
H	acyl	F	Cl	OMe
H	acyl	F	Cl	OEt
H	acyl	F	Cl	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
H	acyl	F	Cl	SMe
H	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
H	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	H
H	amino acid	F	Cl	NH_2
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH_2
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	Cl	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	Cl	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	Cl	SH
amino acid	amino acid	F	Cl	SMe
amino acid	amino acid	F	Cl	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	Cl	I
amino acid	H	F	Cl	H
amino acid	H	F	Cl	NH_2
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	H	F	Cl	NH-ethyl
amino acid	H	F	Cl	NH-acetyl
amino acid	H	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	F	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	H	F	Cl	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	Cl	SEt
amino acid	H	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	H	F	Cl	Cl
amino acid	H	F	Cl	Br
amino acid	H	F	Cl	I
amino acid	acyl	F	Cl	H
amino acid	acyl	F	Cl	NH_2
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl
amino acid	acyl	F	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	F	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	F	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	Cl	O-cyclopropyl
amino acid	acyl	F	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
amino acid	acyl	F	Cl	S-cyclopropyl
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br
amino acid	acyl	F	Cl	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH_2
acyl	H	Cl	F	NH-cyclopropyl
acyl	H	Cl	F	NH-methyl
acyl	H	Cl	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	H	Cl	F	OH
acyl	H	Cl	F	OMe
acyl	H	Cl	F	OEt
acyl	H	Cl	F	O-cyclopropyl
acyl	H	Cl	F	O-acetyl
acyl	H	Cl	F	SH
acyl	H	Cl	F	SMe
acyl	H	Cl	F	SEt
acyl	H	Cl	F	S-cyclopropyl
acyl	H	Cl	F	F
acyl	H	Cl	F	Cl
acyl	H	Cl	F	Br
acyl	H	Cl	F	I
acyl	acyl	Cl	F	H
acyl	acyl	Cl	F	NH_2
acyl	acyl	Cl	F	NH-cyclopropyl
acyl	acyl	Cl	F	NH-methyl
acyl	acyl	Cl	F	NH-ethyl
acyl	acyl	Cl	F	NH-acetyl
acyl	acyl	Cl	F	OH
acyl	acyl	Cl	F	OMe
acyl	acyl	Cl	F	OEt
acyl	acyl	Cl	F	O-cyclopropyl
acyl	acyl	Cl	F	O-acetyl
acyl	acyl	Cl	F	SH
acyl	acyl	Cl	F	SMe
acyl	acyl	Cl	F	SEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	F	S-cyclopropyl
acyl	acyl	Cl	F	F
acyl	acyl	Cl	F	Cl
acyl	acyl	Cl	F	Br
acyl	acyl	Cl	F	I
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH_2
acyl	amino acid	Cl	F	NH-cyclopropyl
acyl	amino acid	Cl	F	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	F	OMe
acyl	amino acid	Cl	F	OEt
acyl	amino acid	Cl	F	O-cyclopropyl
acyl	amino acid	Cl	F	O-acetyl
acyl	amino acid	Cl	F	SH
acyl	amino acid	Cl	F	SMe
acyl	amino acid	Cl	F	SEt
acyl	amino acid	Cl	F	S-cyclopropyl
acyl	amino acid	Cl	F	F
acyl	amino acid	Cl	F	Cl
acyl	amino acid	Cl	F	Br
acyl	amino acid	Cl	F	I
H	acyl	Cl	F	H
H	acyl	Cl	F	NH_2
H	acyl	Cl	F	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
H	acyl	Cl	F	NH-ethyl
H	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
H	acyl	Cl	F	OMe
H	acyl	Cl	F	OEt
H	acyl	Cl	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
H	acyl	Cl	F	SEt
H	acyl	Cl	F	S-cyclopropyl
H	acyl	Cl	F	F
H	acyl	Cl	F	Cl
H	acyl	Cl	F	Br
H	acyl	Cl	F	I
H	amino acid	Cl	F	H
H	amino acid	Cl	F	NH_2
H	amino acid	Cl	F	NH-cyclopropyl
H	amino acid	Cl	F	NH-methyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	F	NH-ethyl
H	amino acid	Cl	F	NH-acetyl
H	amino acid	Cl	F	OH
H	amino acid	Cl	F	OMe
H	amino acid	Cl	F	OEt
H	amino acid	Cl	F	O-cyclopropyl
H	amino acid	Cl	F	O-acetyl
H	amino acid	Cl	F	SH
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
H	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	Cl	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH_2
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H
amino acid	H	Cl	F	NH_2
amino acid	H	Cl	F	NH-cyclopropyl
amino acid	H	Cl	F	NH-methyl
amino acid	H	Cl	F	NH-ethyl
amino acid	H	Cl	F	NH-acetyl
amino acid	H	Cl	F	OH
amino acid	H	Cl	F	OMe
amino acid	H	Cl	F	OEt
amino acid	H	Cl	F	O-cyclopropyl
amino acid	H	Cl	F	O-acetyl
amino acid	H	Cl	F	SH
amino acid	H	Cl	F	SMe

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	F	SEt
amino acid	H	Cl	F	S-cyclopropyl
amino acid	H	Cl	F	F
amino acid	H	Cl	F	Cl
amino acid	H	Cl	F	Br
amino acid	H	Cl	F	I
amino acid	acyl	Cl	F	H
amino acid	acyl	Cl	F	NH_2
amino acid	acyl	Cl	F	NH-cyclopropyl
amino acid	acyl	Cl	F	NH-methyl
amino acid	acyl	Cl	F	NH-ethyl
amino acid	acyl	Cl	F	NH-acetyl
amino acid	acyl	Cl	F	OH
amino acid	acyl	Cl	F	OMe
amino acid	acyl	Cl	F	OEt
amino acid	acyl	Cl	F	O-cyclopropyl
amino acid	acyl	Cl	F	O-acetyl
amino acid	acyl	Cl	F	SH
amino acid	acyl	Cl	F	SMe
amino acid	acyl	Cl	F	SEt
amino acid	acyl	Cl	F	S-cyclopropyl
amino acid	acyl	Cl	F	F
amino acid	acyl	Cl	F	Cl
amino acid	acyl	Cl	F	Br
amino acid	acyl	Cl	F	I
acyl	H	SH	H	H
acyl	H	SH	H	NH_2
acyl	H	SH	H	NH-cyclopropyl
acyl	H	SH	H	NH-methyl
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
acyl	H	SH	H	S-cyclopropyl
acyl	H	SH	H	F
acyl	H	SH	H	Cl
acyl	H	SH	H	Br
acyl	H	SH	H	I
acyl	acyl	SH	H	H
acyl	acyl	SH	H	NH_2
acyl	acyl	SH	H	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	H	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	H	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	H	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	H	F
acyl	acyl	SH	H	Cl
acyl	acyl	SH	H	Br
acyl	acyl	SH	H	I
acyl	amino acid	SH	H	H
acyl	amino acid	SH	H	NH_2
acyl	amino acid	SH	H	NH-cyclopropyl
acyl	amino acid	SH	H	NH-methyl
acyl	amino acid	SH	H	NH-ethyl
acyl	amino acid	SH	H	NH-acetyl
acyl	amino acid	SH	H	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	H	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	H	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	H	H
H	acyl	SH	H	NH_2
H	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	H	NH-methyl
H	acyl	SH	H	NH-ethyl
H	acyl	SH	H	NH-acetyl
H	acyl	SH	H	OH
H	acyl	SH	H	OMe
H	acyl	SH	H	OEt
H	acyl	SH	H	O-cyclopropyl
H	acyl	SH	H	O-acetyl
H	acyl	SH	H	SH

R^2	R^3	X^1	X^2	Y
H	acyl	SH	H	SMe
H	acyl	SH	H	SEt
H	acyl	SH	H	S-cyclopropyl
H	acyl	SH	H	F
H	acyl	SH	H	Cl
H	acyl	SH	H	Br
H	acyl	SH	H	I
H	amino acid	SH	H	H
H	amino acid	SH	H	NH_2
H	amino acid	SH	H	NH-cyclopropyl
H	amino acid	SH	H	NH-methyl
H	amino acid	SH	H	NH-ethyl
H	amino acid	SH	H	NH-acetyl
H	amino acid	SH	H	OH
H	amino acid	SH	H	OMe
H	amino acid	SH	H	OEt
H	amino acid	SH	H	O-cyclopropyl
H	amino acid	SH	H	O-acetyl
H	amino acid	SH	H	SH
H	amino acid	SH	H	SMe
H	amino acid	SH	H	SEt
H	amino acid	SH	H	S-cyclopropyl
H	amino acid	SH	H	F
H	amino acid	SH	H	Cl
H	amino acid	SH	H	Br
H	amino acid	SH	H	I
amino acid	amino acid	SH	H	H
amino acid	amino acid	SH	H	NH_2
amino acid	amino acid	SH	H	NH-cyclopropyl
amino acid	amino acid	SH	H	NH-methyl
amino acid	amino acid	SH	H	NH-ethyl
amino acid	amino acid	SH	H	NH-acetyl
amino acid	amino acid	SH	H	OH
amino acid	amino acid	SH	H	OMe
amino acid	amino acid	SH	H	OEt
amino acid	amino acid	SH	H	O-cyclopropyl
amino acid	amino acid	SH	H	O-acetyl
amino acid	amino acid	SH	H	SH
amino acid	amino acid	SH	H	SMe
amino acid	amino acid	SH	H	SEt
amino acid	amino acid	SH	H	S-cyclopropyl
amino acid	amino acid	SH	H	F
amino acid	amino acid	SH	H	Cl
amino acid	amino acid	SH	H	Br
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	H
amino acid	H	SH	H	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	H	NH-cyclopropyl
amino acid	H	SH	H	NH-methyl
amino acid	H	SH	H	NH-ethyl
amino acid	H	SH	H	NH-acetyl
amino acid	H	SH	H	OH
amino acid	H	SH	H	OMe
amino acid	H	SH	H	OEt
amino acid	H	SH	H	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	H	SH	H	SMe
amino acid	H	SH	H	SEt
amino acid	H	SH	H	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	H	SH	H	Cl
amino acid	H	SH	H	Br
amino acid	H	SH	H	I
amino acid	acyl	SH	H	H
amino acid	acyl	SH	H	NH_2
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	H	NH-methyl
amino acid	acyl	SH	H	NH-ethyl
amino acid	acyl	SH	H	NH-acetyl
amino acid	acyl	SH	H	OH
amino acid	acyl	SH	H	OMe
amino acid	acyl	SH	H	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	H	F
amino acid	acyl	SH	H	Cl
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	H	I
acyl	H	SH	F	H
acyl	H	SH	F	NH_2
acyl	H	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	H	SH	F	NH-ethyl
acyl	H	SH	F	NH-acetyl
acyl	H	SH	F	OH
acyl	H	SH	F	OMe
acyl	H	SH	F	OEt
acyl	H	SH	F	O-cyclopropyl
acyl	H	SH	F	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	SH	F	SH
acyl	H	SH	F	SMe
acyl	H	SH	F	SEt
acyl	H	SH	F	S-cyclopropyl
acyl	H	SH	F	F
acyl	H	SH	F	Cl
acyl	H	SH	F	Br
acyl	H	SH	F	I
acyl	acyl	SH	F	H
acyl	acyl	SH	F	NH_2
acyl	acyl	SH	F	NH-cyclopropyl
acyl	acyl	SH	F	NH-methyl
acyl	acyl	SH	F	NH-ethyl
acyl	acyl	SH	F	NH-acetyl
acyl	acyl	SH	F	OH
acyl	acyl	SH	F	OMe
acyl	acyl	SH	F	OEt
acyl	acyl	SH	F	O-cyclopropyl
acyl	acyl	SH	F	O-acetyl
acyl	acyl	SH	F	SH
acyl	acyl	SH	F	SMe
acyl	acyl	SH	F	SEt
acyl	acyl	SH	F	S-cyclopropyl
acyl	acyl	SH	F	F
acyl	acyl	SH	F	Cl
acyl	acyl	SH	F	Br
acyl	acyl	SH	F	I
acyl	amino acid	SH	F	H
acyl	amino acid	SH	F	NH_2
acyl	amino acid	SH	F	NH-cyclopropyl
acyl	amino acid	SH	F	NH-methyl
acyl	amino acid	SH	F	NH-ethyl
acyl	amino acid	SH	F	NH-acetyl
acyl	amino acid	SH	F	OH
acyl	amino acid	SH	F	OMe
acyl	amino acid	SH	F	OEt
acyl	amino acid	SH	F	O-cyclopropyl
acyl	amino acid	SH	F	O-acetyl
acyl	amino acid	SH	F	SH
acyl	amino acid	SH	F	SMe
acyl	amino acid	SH	F	SEt
acyl	amino acid	SH	F	S-cyclopropyl
acyl	amino acid	SH	F	F
acyl	amino acid	SH	F	Cl
acyl	amino acid	SH	F	Br
acyl	amino acid	SH	F	I
H	acyl	SH	F	H

R^2	R^3	X^1	X^2	Y
H	acyl	SH	F	NH_2
H	acyl	SH	F	NH-cyclopropyl
H	acyl	SH	F	NH-methyl
H	acyl	SH	F	NH-ethyl
H	acyl	SH	F	NH-acetyl
H	acyl	SH	F	OH
H	acyl	SH	F	OMe
H	acyl	SH	F	OEt
H	acyl	SH	F	O-cyclopropyl
H	acyl	SH	F	O-acetyl
H	acyl	SH	F	SH
H	acyl	SH	F	SMe
H	acyl	SH	F	SEt
H	acyl	SH	F	S-cyclopropyl
H	acyl	SH	F	F
H	acyl	SH	F	Cl
H	acyl	SH	F	Br
H	acyl	SH	F	I
H	amino acid	SH	F	H
H	amino acid	SH	F	NH_2
H	amino acid	SH	F	NH-cyclopropyl
H	amino acid	SH	F	NH-methyl
H	amino acid	SH	F	NH-ethyl
H	amino acid	SH	F	NH-acetyl
H	amino acid	SH	F	OH
H	amino acid	SH	F	OMe
H	amino acid	SH	F	OEt
H	amino acid	SH	F	O-cyclopropyl
H	amino acid	SH	F	O-acetyl
H	amino acid	SH	F	SH
H	amino acid	SH	F	SMe
H	amino acid	SH	F	SEt
H	amino acid	SH	F	S-cyclopropyl
H	amino acid	SH	F	F
H	amino acid	SH	F	Cl
H	amino acid	SH	F	Br
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH_2
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt
amino acid	amino acid	SH	F	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	H	SH	F	NH_2
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	H	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	OH
amino acid	H	SH	F	OMe
amino acid	H	SH	F	OEt
amino acid	H	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	H	SH	F	SH
amino acid	H	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	H	SH	F	S-cyclopropyl
amino acid	H	SH	F	F
amino acid	H	SH	F	Cl
amino acid	H	SH	F	Br
amino acid	H	SH	F	I
amino acid	acyl	SH	F	H
amino acid	acyl	SH	F	NH_2
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br
amino acid	acyl	SH	F	I

R^2	R^3	X^1	X^2	Y
acyl	H	SH	Cl	H
acyl	H	SH	Cl	NH_2
acyl	H	SH	Cl	NH-cyclopropyl
acyl	H	SH	Cl	NH-methyl
acyl	H	SH	Cl	NH-ethyl
acyl	H	SH	Cl	NH-acetyl
acyl	H	SH	Cl	OH
acyl	H	SH	Cl	OMe
acyl	H	SH	Cl	OEt
acyl	H	SH	Cl	O-cyclopropyl
acyl	H	SH	Cl	O-acetyl
acyl	H	SH	Cl	SH
acyl	H	SH	Cl	SMe
acyl	H	SH	Cl	SEt
acyl	H	SH	Cl	S-cyclopropyl
acyl	H	SH	Cl	F
acyl	H	SH	Cl	Cl
acyl	H	SH	Cl	Br
acyl	H	SH	Cl	I
acyl	acyl	SH	Cl	H
acyl	acyl	SH	Cl	NH_2
acyl	acyl	SH	Cl	NH-cyclopropyl
acyl	acyl	SH	Cl	NH-methyl
acyl	acyl	SH	Cl	NH-ethyl
acyl	acyl	SH	Cl	NH-acetyl
acyl	acyl	SH	Cl	OH
acyl	acyl	SH	Cl	OMe
acyl	acyl	SH	Cl	OEt
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl	acyl	SH	Cl	SH
acyl	acyl	SH	Cl	SMe
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	H
acyl	amino acid	SH	Cl	NH_2
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	OH
acyl	amino acid	SH	Cl	OMe
acyl	amino acid	SH	Cl	OEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	Cl
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
H	acyl	SH	Cl	H
H	acyl	SH	Cl	NH_2
H	acyl	SH	Cl	NH-cyclopropyl
H	acyl	SH	Cl	NH-methyl
H	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
H	acyl	SH	Cl	OH
H	acyl	SH	Cl	OMe
H	acyl	SH	Cl	OEt
H	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
H	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
H	acyl	SH	Cl	SEt
H	acyl	SH	Cl	S-cyclopropyl
H	acyl	SH	Cl	F
H	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
H	acyl	SH	Cl	I
H	amino acid	SH	Cl	H
H	amino acid	SH	Cl	NH_2
H	amino acid	SH	Cl	NH-cyclopropyl
H	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	Cl	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
H	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
H	amino acid	SH	Cl	Br

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH_2
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cl	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	Cl	Cl
amino acid	amino acid	SH	Cl	Br
amino acid	amino acid	SH	Cl	I
amino acid	H	SH	Cl	H
amino acid	H	SH	Cl	NH_2
amino acid	H	SH	Cl	NH-cyclopropyl
amino acid	H	SH	Cl	NH-methyl
amino acid	H	SH	Cl	NH-ethyl
amino acid	H	SH	Cl	NH-acetyl
amino acid	H	SH	Cl	OH
amino acid	H	SH	Cl	OMe
amino acid	H	SH	Cl	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl
amino acid	H	SH	Cl	SH
amino acid	H	SH	Cl	SMe
amino acid	H	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	H	SH	Cl	F
amino acid	H	SH	Cl	Cl
amino acid	H	SH	Cl	Br
amino acid	H	SH	Cl	I
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH_2
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	Cl	OH
amino acid	acyl	SH	Cl	OMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Cl	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	I
acyl	H	SH	Br	H
acyl	H	SH	Br	NH_2
acyl	H	SH	Br	NH-cyclopropyl
acyl	H	SH	Br	NH-methyl
acyl	H	SH	Br	NH-ethyl
acyl	H	SH	Br	NH-acetyl
acyl	H	SH	Br	OH
acyl	H	SH	Br	OMe
acyl	H	SH	Br	OEt
acyl	H	SH	Br	O-cyclopropyl
acyl	H	SH	Br	O-acetyl
acyl	H	SH	Br	SH
acyl	H	SH	Br	SMe
acyl	H	SH	Br	SEt
acyl	H	SH	Br	S-cyclopropyl
acyl	H	SH	Br	F
acyl	H	SH	Br	Cl
acyl	H	SH	Br	Br
acyl	H	SH	Br	I
acyl	acyl	SH	Br	H
acyl	acyl	SH	Br	NH_2
acyl	acyl	SH	Br	NH-cyclopropyl
acyl	acyl	SH	Br	NH-methyl
acyl	acyl	SH	Br	NH-ethyl
acyl	acyl	SH	Br	NH-acetyl
acyl	acyl	SH	Br	OH
acyl	acyl	SH	Br	OMe
acyl	acyl	SH	Br	OEt
acyl	acyl	SH	Br	O-cyclopropyl
acyl	acyl	SH	Br	O-acetyl
acyl	acyl	SH	Br	SH
acyl	acyl	SH	Br	SMe
acyl	acyl	SH	Br	SEt
acyl	acyl	SH	Br	S-cyclopropyl
acyl	acyl	SH	Br	F
acyl	acyl	SH	Br	Cl

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	Br	Br
acyl	acyl	SH	Br	I
acyl	amino acid	SH	Br	H
acyl	amino acid	SH	Br	NH_2
acyl	amino acid	SH	Br	NH-cyclopropyl
acyl	amino acid	SH	Br	NH-methyl
acyl	amino acid	SH	Br	NH-ethyl
acyl	amino acid	SH	Br	NH-acetyl
acyl	amino acid	SH	Br	OH
acyl	amino acid	SH	Br	OMe
acyl	amino acid	SH	Br	OEt
acyl	amino acid	SH	Br	O-cyclopropyl
acyl	amino acid	SH	Br	O-acetyl
acyl	amino acid	SH	Br	SH
acyl	amino acid	SH	Br	SMe
acyl	amino acid	SH	Br	SEt
acyl	amino acid	SH	Br	S-cyclopropyl
acyl	amino acid	SH	Br	F
acyl	amino acid	SH	Br	Cl
acyl	amino acid	SH	Br	Br
acyl	amino acid	SH	Br	I
H	acyl	SH	Br	H
H	acyl	SH	Br	NH_2
H	acyl	SH	Br	NH-cyclopropyl
H	acyl	SH	Br	NH-methyl
H	acyl	SH	Br	NH-ethyl
H	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	OH
H	acyl	SH	Br	OMe
H	acyl	SH	Br	OEt
H	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
H	acyl	SH	Br	SMe
H	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl
H	acyl	SH	Br	F
H	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	I
H	amino acid	SH	Br	H
H	amino acid	SH	Br	NH_2
H	amino acid	SH	Br	NH-cyclopropyl
H	amino acid	SH	Br	NH-methyl
H	amino acid	SH	Br	NH-ethyl
H	amino acid	SH	Br	NH-acetyl
H	amino acid	SH	Br	OH

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Br	OMe
H	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
H	amino acid	SH	Br	O-acetyl
H	amino acid	SH	Br	SH
H	amino acid	SH	Br	SMe
H	amino acid	SH	Br	SEt
H	amino acid	SH	Br	S-cyclopropyl
H	amino acid	SH	Br	F
H	amino acid	SH	Br	Cl
H	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	H
amino acid	amino acid	SH	Br	NH_2
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	O-acetyl
amino acid	amino acid	SH	Br	SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid	SH	Br	F
amino acid	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	H	SH	Br	H
amino acid	H	SH	Br	NH_2
amino acid	H	SH	Br	NH-cyclopropyl
amino acid	H	SH	Br	NH-methyl
amino acid	H	SH	Br	NH-ethyl
amino acid	H	SH	Br	NH-acetyl
amino acid	H	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	H	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	H	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	H	SH	Br	S-cyclopropyl
amino acid	H	SH	Br	F

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	Br	Cl
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	acyl	SH	Br	H
amino acid	acyl	SH	Br	NH_2
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH
amino acid	acyl	SH	Br	OMe
amino acid	acyl	SH	Br	OEt
amino acid	acyl	SH	Br	O-cyclopropyl
amino acid	acyl	SH	Br	O-acetyl
amino acid	acyl	SH	Br	SH
amino acid	acyl	SH	Br	SMe
amino acid	acyl	SH	Br	SEt
amino acid	acyl	SH	Br	S-cyclopropyl
amino acid	acyl	SH	Br	F
amino acid	acyl	SH	Br	Cl
amino acid	acyl	SH	Br	Br
amino acid	acyl	SH	Br	I
acyl	H	H	SH	H
acyl	H	H	SH	NH_2
acyl	H	H	SH	NH-cyclopropyl
acyl	H	H	SH	NH-methyl
acyl	H	H	SH	NH-ethyl
acyl	H	H	SH	NH-acetyl
acyl	H	H	SH	OH
acyl	H	H	SH	OMe
acyl	H	H	SH	OEt
acyl	H	H	SH	O-cyclopropyl
acyl	H	H	SH	O-acetyl
acyl	H	H	SH	SH
acyl	H	H	SH	SMe
acyl	H	H	SH	SEt
acyl	H	H	SH	S-cyclopropyl
acyl	H	H	SH	F
acyl	H	H	SH	Cl
acyl	H	H	SH	Br
acyl	H	H	SH	I
acyl	acyl	H	SH	H
acyl	acyl	H	SH	NH_2
acyl	acyl	H	SH	NH-cyclopropyl
acyl	acyl	H	SH	NH-methyl
acyl	acyl	H	SH	NH-ethyl
acyl	acyl	H	SH	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	SH	OH
acyl	acyl	H	SH	OMe
acyl	acyl	H	SH	OEt
acyl	acyl	H	SH	O-cyclopropyl
acyl	acyl	H	SH	O-acetyl
acyl	acyl	H	SH	SH
acyl	acyl	H	SH	SMe
acyl	acyl	H	SH	SEt
acyl	acyl	H	SH	S-cyclopropyl
acyl	acyl	H	SH	F
acyl	acyl	H	SH	Cl
acyl	acyl	H	SH	Br
acyl	acyl	H	SH	I
acyl	amino acid	H	SH	H
acyl	amino acid	H	SH	NH_2
acyl	amino acid	H	SH	NH-cyclopropyl
acyl	amino acid	H	SH	NH-methyl
acyl	amino acid	H	SH	NH-ethyl
acyl	amino acid	H	SH	NH-acetyl
acyl	amino acid	H	SH	OH
acyl	amino acid	H	SH	OMe
acyl	amino acid	H	SH	OEt
acyl	amino acid	H	SH	O-cyclopropyl
acyl	amino acid	H	SH	O-acetyl
acyl	amino acid	H	SH	SH
acyl	amino acid	H	SH	SMe
acyl	amino acid	H	SH	SEt
acyl	amino acid	H	SH	S-cyclopropyl
acyl	amino acid	H	SH	F
acyl	amino acid	H	SH	Cl
acyl	amino acid	H	SH	Br
acyl	amino acid	H	SH	I
H	acyl	H	SH	H
H	acyl	H	SH	NH_2
H	acyl	H	SH	NH-cyclopropyl
H	acyl	H	SH	NH-methyl
H	acyl	H	SH	NH-ethyl
H	acyl	H	SH	NH-acetyl
H	acyl	H	SH	OH
H	acyl	H	SH	OMe
H	acyl	H	SH	OEt
H	acyl	H	SH	O-cyclopropyl
H	acyl	H	SH	O-acetyl
H	acyl	H	SH	SH
H	acyl	H	SH	SMe
H	acyl	H	SH	SEt
H	acyl	H	SH	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	H	SH	F
H	acyl	H	SH	Cl
H	acyl	H	SH	Br
H	acyl	H	SH	I
H	amino acid	H	SH	H
H	amino acid	H	SH	NH_2
H	amino acid	H	SH	NH-cyclopropyl
H	amino acid	H	SH	NH-methyl
H	amino acid	H	SH	NH-ethyl
H	amino acid	H	SH	NH-acetyl
H	amino acid	H	SH	OH
H	amino acid	H	SH	OMe
H	amino acid	H	SH	OEt
H	amino acid	H	SH	O-cyclopropyl
H	amino acid	H	SH	O-acetyl
H	amino acid	H	SH	SH
H	amino acid	H	SH	SMe
H	amino acid	H	SH	SEt
H	amino acid	H	SH	S-cyclopropyl
H	amino acid	H	SH	F
H	amino acid	H	SH	Cl
H	amino acid	H	SH	Br
H	amino acid	H	SH	I
amino acid	amino acid	H	SH	H
amino acid	amino acid	H	SH	NH_2
amino acid	amino acid	H	SH	NH-cyclopropyl
amino acid	amino acid	H	SH	NH-methyl
amino acid	amino acid	H	SH	NH-ethyl
amino acid	amino acid	H	SH	NH-acetyl
amino acid	amino acid	H	SH	OH
amino acid	amino acid	H	SH	OMe
amino acid	amino acid	H	SH	OEt
amino acid	amino acid	H	SH	O-cyclopropyl
amino acid	amino acid	H	SH	O-acetyl
amino acid	amino acid	H	SH	SH
amino acid	amino acid	H	SH	SMe
amino acid	amino acid	H	SH	SEt
amino acid	amino acid	H	SH	S-cyclopropyl
amino acid	amino acid	H	SH	F
amino acid	amino acid	H	SH	Cl
amino acid	amino acid	H	SH	Br
amino acid	amino acid	H	SH	I
amino acid	H	H	SH	H
amino acid	H	H	SH	NH_2
amino acid	H	H	SH	NH-cyclopropyl
amino acid	H	H	SH	NH-methyl
amino acid	H	H	SH	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	SH	NH-acetyl
amino acid	H	H	SH	OH
amino acid	H	H	SH	OMe
amino acid	H	H	SH	OEt
amino acid	H	H	SH	O-cyclopropyl
amino acid	H	H	SH	O-acetyl
amino acid	H	H	SH	SH
amino acid	H	H	SH	SMe
amino acid	H	H	SH	SEt
amino acid	H	H	SH	S-cyclopropyl
amino acid	H	H	SH	F
amino acid	H	H	SH	Cl
amino acid	H	H	SH	Br
amino acid	H	H	SH	I
amino acid	acyl	H	SH	H
amino acid	acyl	H	SH	NH_2
amino acid	acyl	H	SH	NH-cyclopropyl
amino acid	acyl	H	SH	NH-methyl
amino acid	acyl	H	SH	NH-ethyl
amino acid	acyl	H	SH	NH-acetyl
amino acid	acyl	H	SH	OH
amino acid	acyl	H	SH	OMe
amino acid	acyl	H	SH	OEt
amino acid	acyl	H	SH	O-cyclopropyl
amino acid	acyl	H	SH	O-acetyl
amino acid	acyl	H	SH	SH
amino acid	acyl	H	SH	SMe
amino acid	acyl	H	SH	SEt
amino acid	acyl	H	SH	S-cyclopropyl
amino acid	acyl	H	SH	F
amino acid	acyl	H	SH	Cl
amino acid	acyl	H	SH	Br
amino acid	acyl	H	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt

R^2	R^3	X^1	X^2	Y
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	Cl	SH	H
acyl	H	Cl	SH	NH_2
acyl	H	Cl	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	SH	NH-methyl
acyl	H	Cl	SH	NH-ethyl
acyl	H	Cl	SH	NH-acetyl
acyl	H	Cl	SH	OH
acyl	H	Cl	SH	OMe
acyl	H	Cl	SH	OEt
acyl	H	Cl	SH	O-cyclopropyl
acyl	H	Cl	SH	O-acetyl
acyl	H	Cl	SH	SH
acyl	H	Cl	SH	SMe
acyl	H	Cl	SH	SEt
acyl	H	Cl	SH	S-cyclopropyl
acyl	H	Cl	SH	F
acyl	H	Cl	SH	Cl
acyl	H	Cl	SH	Br
acyl	H	Cl	SH	I
acyl	acyl	Cl	SH	H
acyl	acyl	Cl	SH	NH_2
acyl	acyl	Cl	SH	NH-cyclopropyl
acyl	acyl	Cl	SH	NH-methyl
acyl	acyl	Cl	SH	NH-ethyl
acyl	acyl	Cl	SH	NH-acetyl
acyl	acyl	Cl	SH	OH
acyl	acyl	Cl	SH	OMe
acyl	acyl	Cl	SH	OEt
acyl	acyl	Cl	SH	O-cyclopropyl
acyl	acyl	Cl	SH	O-acetyl
acyl	acyl	Cl	SH	SH
acyl	acyl	Cl	SH	SMe
acyl	acyl	Cl	SH	SEt
acyl	acyl	Cl	SH	S-cyclopropyl
acyl	acyl	Cl	SH	F
acyl	acyl	Cl	SH	Cl
acyl	acyl	Cl	SH	Br
acyl	acyl	Cl	SH	I
acyl	amino acid	Cl	SH	H
acyl	amino acid	Cl	SH	NH_2
acyl	amino acid	Cl	SH	NH-cyclopropyl
acyl	amino acid	Cl	SH	NH-methyl
acyl	amino acid	Cl	SH	NH-ethyl
acyl	amino acid	Cl	SH	NH-acetyl
acyl	amino acid	Cl	SH	OH
acyl	amino acid	Cl	SH	OMe
acyl	amino acid	Cl	SH	OEt
acyl	amino acid	Cl	SH	O-cyclopropyl
acyl	amino acid	Cl	SH	O-acetyl
acyl	amino acid	Cl	SH	SH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Cl	SH	SMe
acyl	amino acid	Cl	SH	SEt
acyl	amino acid	Cl	SH	S-cyclopropyl
acyl	amino acid	Cl	SH	F
acyl	amino acid	Cl	SH	Cl
acyl	amino acid	Cl	SH	Br
acyl	amino acid	Cl	SH	I
H	acyl	Cl	SH	H
H	acyl	Cl	SH	NH_2
H	acyl	Cl	SH	NH-cyclopropyl
H	acyl	Cl	SH	NH-methyl
H	acyl	Cl	SH	NH-ethyl
H	acyl	Cl	SH	NH-acetyl
H	acyl	Cl	SH	OH
H	acyl	Cl	SH	OMe
H	acyl	Cl	SH	OEt
H	acyl	Cl	SH	O-cyclopropyl
H	acyl	Cl	SH	O-acetyl
H	acyl	Cl	SH	SH
H	acyl	Cl	SH	SMe
H	acyl	Cl	SH	SEt
H	acyl	Cl	SH	S-cyclopropyl
H	acyl	Cl	SH	F
H	acyl	Cl	SH	Cl
H	acyl	Cl	SH	Br
H	acyl	Cl	SH	I
H	amino acid	Cl	SH	H
H	amino acid	Cl	SH	NH_2
H	amino acid	Cl	SH	NH-cyclopropyl
H	amino acid	Cl	SH	NH-methyl
H	amino acid	Cl	SH	NH-ethyl
H	amino acid	Cl	SH	NH-acetyl
H	amino acid	Cl	SH	OH
H	amino acid	Cl	SH	OMe
H	amino acid	Cl	SH	OEt
H	amino acid	Cl	SH	O-cyclopropyl
H	amino acid	Cl	SH	O-acetyl
H	amino acid	Cl	SH	SH
H	amino acid	Cl	SH	SMe
H	amino acid	Cl	SH	SEt
H	amino acid	Cl	SH	S-cyclopropyl
H	amino acid	Cl	SH	F
H	amino acid	Cl	SH	Cl
H	amino acid	Cl	SH	Br
H	amino acid	Cl	SH	I
amino acid	amino acid	Cl	SH	H
amino acid	amino acid	Cl	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	SH	NH-cyclopropyl
amino acid	amino acid	Cl	SH	NH-methyl
amino acid	amino acid	Cl	SH	NH-ethyl
amino acid	amino acid	Cl	SH	NH-acetyl
amino acid	amino acid	Cl	SH	OH
amino acid	amino acid	Cl	SH	OMe
amino acid	amino acid	Cl	SH	OEt
amino acid	amino acid	Cl	SH	O-cyclopropyl
amino acid	amino acid	Cl	SH	O-acetyl
amino acid	amino acid	Cl	SH	SH
amino acid	amino acid	Cl	SH	SMe
amino acid	amino acid	Cl	SH	SEt
amino acid	amino acid	Cl	SH	S-cyclopropyl
amino acid	amino acid	Cl	SH	F
amino acid	amino acid	Cl	SH	Cl
amino acid	amino acid	Cl	SH	Br
amino acid	amino acid	Cl	SH	I
amino acid	H	Cl	SH	H
amino acid	H	Cl	SH	NH_2
amino acid	H	Cl	SH	NH-cyclopropyl
amino acid	H	Cl	SH	NH-methyl
amino acid	H	Cl	SH	NH-ethyl
amino acid	H	Cl	SH	NH-acetyl
amino acid	H	Cl	SH	OH
amino acid	H	Cl	SH	OMe
amino acid	H	Cl	SH	OEt
amino acid	H	Cl	SH	O-cyclopropyl
amino acid	H	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	H	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
amino acid	H	Cl	SH	F
amino acid	H	Cl	SH	Cl
amino acid	H	Cl	SH	Br
amino acid	H	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH_2
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	Cl	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl
amino acid	acyl	Cl	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Cl	SH	SH
amino acid	acyl	Cl	SH	SMe
amino acid	acyl	Cl	SH	SEt
amino acid	acyl	Cl	SH	S-cyclopropyl
amino acid	acyl	Cl	SH	F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH_2
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	H	Br	SH	OH
acyl	H	Br	SH	OMe
acyl	H	Br	SH	OEt
acyl	H	Br	SH	O-cyclopropyl
acyl	H	Br	SH	O-acetyl
acyl	H	Br	SH	SH
acyl	H	Br	SH	SMe
acyl	H	Br	SH	SEt
acyl	H	Br	SH	S-cyclopropyl
acyl	H	Br	SH	F
acyl	H	Br	SH	Cl
acyl	H	Br	SH	Br
acyl	H	Br	SH	I
acyl	acyl	Br	SH	H
acyl	acyl	Br	SH	NH_2
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I
acyl	amino acid	Br	SH	H

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	SH	NH_2
acyl	amino acid	Br	SH	NH-cyclopropyl
acyl	amino acid	Br	SH	NH-methyl
acyl	amino acid	Br	SH	NH-ethyl
acyl	amino acid	Br	SH	NH-acetyl
acyl	amino acid	Br	SH	OH
acyl	amino acid	Br	SH	OMe
acyl	amino acid	Br	SH	OEt
acyl	amino acid	Br	SH	O-cyclopropyl
acyl	amino acid	Br	SH	O-acetyl
acyl	amino acid	Br	SH	SH
acyl	amino acid	Br	SH	SMe
acyl	amino acid	Br	SH	SEt
acyl	amino acid	Br	SH	S-cyclopropyl
acyl	amino acid	Br	SH	F
acyl	amino acid	Br	SH	Cl
acyl	amino acid	Br	SH	Br
acyl	amino acid	Br	SH	I
H	acyl	Br	SH	H
H	acyl	Br	SH	NH_2
H	acyl	Br	SH	NH-cyclopropyl
H	acyl	Br	SH	NH-methyl
H	acyl	Br	SH	NH-ethyl
H	acyl	Br	SH	NH-acetyl
H	acyl	Br	SH	OH
H	acyl	Br	SH	OMe
H	acyl	Br	SH	OEt
H	acyl	Br	SH	O-cyclopropyl
H	acyl	Br	SH	O-acetyl
H	acyl	Br	SH	SH
H	acyl	Br	SH	SMe
H	acyl	Br	SH	SEt
H	acyl	Br	SH	S-cyclopropyl
H	acyl	Br	SH	F
H	acyl	Br	SH	Cl
H	acyl	Br	SH	Br
H	acyl	Br	SH	I
H	amino acid	Br	SH	H
H	amino acid	Br	SH	NH_2
H	amino acid	Br	SH	NH-cyclopropyl
H	amino acid	Br	SH	NH-methyl
H	amino acid	Br	SH	NH-ethyl
H	amino acid	Br	SH	NH-acetyl
H	amino acid	Br	SH	OH
H	amino acid	Br	SH	OMe
H	amino acid	Br	SH	OEt
H	amino acid	Br	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	SH	O-acetyl
H	amino acid	Br	SH	SH
H	amino acid	Br	SH	SMe
H	amino acid	Br	SH	SEt
H	amino acid	Br	SH	S-cyclopropyl
H	amino acid	Br	SH	F
H	amino acid	Br	SH	Cl
H	amino acid	Br	SH	Br
H	amino acid	Br	SH	I
amino acid	amino acid	Br	SH	H
amino acid	amino acid	Br	SH	NH_2
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	O-acetyl
amino acid	amino acid	Br	SH	SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	S-cyclopropyl
amino acid	amino acid	Br	SH	F
amino acid	amino acid	Br	SH	Cl
amino acid	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	H	Br	SH	NH_2
amino acid	H	Br	SH	NH-cyclopropyl
amino acid	H	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	H	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	H	Br	SH	OMe
amino acid	H	Br	SH	OEt
amino acid	H	Br	SH	O-cyclopropyl
amino acid	H	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	H	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	H	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	H	Br	SH	Br
amino acid	H	Br	SH	I

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	SH	H
amino acid	acyl	Br	SH	NH_2
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid	acyl	Br	SH	O-cyclopropyl
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt
amino acid	acyl	Br	SH	S-cyclopropyl
amino acid	acyl	Br	SH	F
amino acid	acyl	Br	SH	Cl
amino acid	acyl	Br	SH	Br
amino acid	acyl	Br	SH	I
acyl	H	F	F	H
acyl	H	F	F	NH_2
acyl	H	F	F	NH-cyclopropyl
acyl	H	F	F	NH-methyl
acyl	H	F	F	NH-ethyl
acyl	H	F	F	NH-acetyl
acyl	H	F	F	OH
acyl	H	F	F	OMe
acyl	H	F	F	OEt
acyl	H	F	F	O-cyclopropyl
acyl	H	F	F	O-acetyl
acyl	H	F	F	SH
acyl	H	F	F	SMe
acyl	H	F	F	SEt
acyl	H	F	F	S-cyclopropyl
acyl	H	F	F	F
acyl	H	F	F	Cl
acyl	H	F	F	Br
acyl	H	F	F	I
acyl	acyl	F	F	H
acyl	acyl	F	F	NH_2
acyl	acyl	F	F	NH-cyclopropyl
acyl	acyl	F	F	NH-methyl
acyl	acyl	F	F	NH-ethyl
acyl	acyl	F	F	NH-acetyl
acyl	acyl	F	F	OH
acyl	acyl	F	F	OMe
acyl	acyl	F	F	OEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	F	O-cyclopropyl
acyl	acyl	F	F	O-acetyl
acyl	acyl	F	F	SH
acyl	acyl	F	F	SMe
acyl	acyl	F	F	SEt
acyl	acyl	F	F	S-cyclopropyl
acyl	acyl	F	F	F
acyl	acyl	F	F	Cl
acyl	acyl	F	F	Br
acyl	acyl	F	F	I
acyl	amino acid	F	F	H
acyl	amino acid	F	F	NH_2
acyl	amino acid	F	F	NH-cyclopropyl
acyl	amino acid	F	F	NH-methyl
acyl	amino acid	F	F	NH-ethyl
acyl	amino acid	F	F	NH-acetyl
acyl	amino acid	F	F	OH
acyl	amino acid	F	F	OMe
acyl	amino acid	F	F	OEt
acyl	amino acid	F	F	O-cyclopropyl
acyl	amino acid	F	F	O-acetyl
acyl	amino acid	F	F	SH
acyl	amino acid	F	F	SMe
acyl	amino acid	F	F	SEt
acyl	amino acid	F	F	S-cyclopropyl
acyl	amino acid	F	F	F
acyl	amino acid	F	F	Cl
acyl	amino acid	F	F	Br
acyl	amino acid	F	F	I
H	acyl	F	F	H
H	acyl	F	F	NH_2
H	acyl	F	F	NH-cyclopropyl
H	acyl	F	F	NH-methyl
H	acyl	F	F	NH-ethyl
H	acyl	F	F	NH-acetyl
H	acyl	F	F	OH
H	acyl	F	F	OMe
H	acyl	F	F	OEt
H	acyl	F	F	O-cyclopropyl
H	acyl	F	F	O-acetyl
H	acyl	F	F	SH
H	acyl	F	F	SMe
H	acyl	F	F	SEt
H	acyl	F	F	S-cyclopropyl
H	acyl	F	F	F
H	acyl	F	F	Cl
H	acyl	F	F	Br

R^2	R^3	X^1	X^2	Y
H	acyl	F	F	I
H	amino acid	F	F	H
H	amino acid	F	F	NH_2
H	amino acid	F	F	NH-cyclopropyl
H	amino acid	F	F	NH-methyl
H	amino acid	F	F	NH-ethyl
H	amino acid	F	F	NH-acetyl
H	amino acid	F	F	OH
H	amino acid	F	F	OMe
H	amino acid	F	F	OEt
H	amino acid	F	F	O-cyclopropyl
H	amino acid	F	F	O-acetyl
H	amino acid	F	F	SH
H	amino acid	F	F	SMe
H	amino acid	F	F	SEt
H	amino acid	F	F	S-cyclopropyl
H	amino acid	F	F	F
H	amino acid	F	F	Cl
H	amino acid	F	F	Br
H	amino acid	F	F	I
amino acid	amino acid	F	F	H
amino acid	amino acid	F	F	NH_2
amino acid	amino acid	F	F	NH-cyclopropyl
amino acid	amino acid	F	F	NH-methyl
amino acid	amino acid	F	F	NH-ethyl
amino acid	amino acid	F	F	NH-acetyl
amino acid	amino acid	F	F	OH
amino acid	amino acid	F	F	OMe
amino acid	amino acid	F	F	OEt
amino acid	amino acid	F	F	O-cyclopropyl
amino acid	amino acid	F	F	O-acetyl
amino acid	amino acid	F	F	SH
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	I
amino acid	H	F	F	H
amino acid	H	F	F	NH_2
amino acid	H	F	F	NH-cyclopropyl
amino acid	H	F	F	NH-methyl
amino acid	H	F	F	NH-ethyl
amino acid	H	F	F	NH-acetyl
amino acid	H	F	F	OH
amino acid	H	F	F	OMe

R^2	R^3	X^1	X^2	Y
amino acid	H	F	F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	H	F	F	O-acetyl
amino acid	H	F	F	SH
amino acid	H	F	F	SMe
amino acid	H	F	F	SEt
amino acid	H	F	F	S-cyclopropyl
amino acid	H	F	F	F
amino acid	H	F	F	Cl
amino acid	H	F	F	Br
amino acid	H	F	F	I
amino acid	acyl	F	F	H
amino acid	acyl	F	F	NH_2
amino acid	acyl	F	F	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	F	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	F	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	F	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	F	Cl
amino acid	acyl	F	F	Br
amino acid	acyl	F	F	I
acyl	H	Cl	Cl	H
acyl	H	Cl	Cl	NH_2
acyl	H	Cl	Cl	NH-cyclopropyl
acyl	H	Cl	Cl	NH-methyl
acyl	H	Cl	Cl	NH-ethyl
acyl	H	Cl	Cl	NH-acetyl
acyl	H	Cl	Cl	OH
acyl	H	Cl	Cl	OMe
acyl	H	Cl	Cl	OEt
acyl	H	Cl	Cl	O-cyclopropyl
acyl	H	Cl	Cl	O-acetyl
acyl	H	Cl	Cl	SH
acyl	H	Cl	Cl	SMe
acyl	H	Cl	Cl	SEt
acyl	H	Cl	Cl	S-cyclopropyl
acyl	H	Cl	Cl	F
acyl	H	Cl	Cl	Cl

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	Cl	Br
acyl	H	Cl	Cl	I
acyl	acyl	Cl	Cl	H
acyl	acyl	Cl	Cl	NH_2
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	OH
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	amino acid	Cl	Cl	H
acyl	amino acid	Cl	Cl	NH_2
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
H	acyl	Cl	Cl	H
H	acyl	Cl	Cl	NH_2
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl
H	acyl	Cl	Cl	OH

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	Cl	Br
acyl	H	Cl	Cl	I
acyl	acyl	Cl	Cl	H
acyl	acyl	Cl	Cl	NH_2
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	OH
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	amino acid	Cl	Cl	H
acyl	amino acid	Cl	Cl	NH_2
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
H	acyl	Cl	Cl	H
H	acyl	Cl	Cl	NH_2
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl
H	acyl	Cl	Cl	OH

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Cl	OMe
H	acyl	Cl	Cl	OEt
H	acyl	Cl	Cl	O-cyclopropyl
H	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	Cl	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
H	acyl	Cl	Cl	F
H	acyl	Cl	Cl	Cl
H	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	I
H	amino acid	Cl	Cl	H
H	amino acid	Cl	Cl	NH_2
H	amino acid	Cl	Cl	NH-cyclopropyl
H	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Cl	Cl	OEt
H	amino acid	Cl	Cl	O-cyclopropyl
H	amino acid	Cl	Cl	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
H	amino acid	Cl	Cl	SEt
H	amino acid	Cl	Cl	S-cyclopropyl
H	amino acid	Cl	Cl	F
H	amino acid	Cl	Cl	Cl
H	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
amino acid	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH_2
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl
amino acid	amino acid	Cl	Cl	NH-acetyl
amino acid	amino acid	Cl	Cl	OH
amino acid	amino acid	Cl	Cl	OMe
amino acid	amino acid	Cl	Cl	OEt
amino acid	amino acid	Cl	Cl	O-cyclopropyl
amino acid	amino acid	Cl	Cl	O-acetyl
amino acid	amino acid	Cl	Cl	SH
amino acid	amino acid	Cl	Cl	SMe
amino acid	amino acid	Cl	Cl	SEt
amino acid	amino acid	Cl	Cl	S-cyclopropyl
amino acid	amino acid	Cl	Cl	F

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	Cl	Cl
amino acid	amino acid	Cl	Cl	Br
amino acid	amino acid	Cl	Cl	I
amino acid	H	Cl	Cl	H
amino acid	H	Cl	Cl	NH_2
amino acid	H	Cl	Cl	NH-cyclopropyl
amino acid	H	Cl	Cl	NH-methyl
amino acid	H	Cl	Cl	NH-ethyl
amino acid	H	Cl	Cl	NH-acetyl
amino acid	H	Cl	Cl	OH
amino acid	H	Cl	Cl	OMe
amino acid	H	Cl	Cl	OEt
amino acid	H	Cl	Cl	O-cyclopropyl
amino acid	H	Cl	Cl	O-acetyl
amino acid	H	Cl	Cl	SH
amino acid	H	Cl	Cl	SMe
amino acid	H	Cl	Cl	SEt
amino acid	H	Cl	Cl	S-cyclopropyl
amino acid	H	Cl	Cl	F
amino acid	H	Cl	Cl	Cl
amino acid	H	Cl	Cl	Br
amino acid	H	Cl	Cl	I
amino acid	acyl	Cl	Cl	H
amino acid	acyl	Cl	Cl	NH_2
amino acid	acyl	Cl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	Cl	NH-methyl
amino acid	acyl	Cl	Cl	NH-ethyl
amino acid	acyl	Cl	Cl	NH-acetyl
amino acid	acyl	Cl	Cl	OH
amino acid	acyl	Cl	Cl	OMe
amino acid	acyl	Cl	Cl	OEt
amino acid	acyl	Cl	Cl	O-cyclopropyl
amino acid	acyl	Cl	Cl	O-acetyl
amino acid	acyl	Cl	Cl	SH
amino acid	acyl	Cl	Cl	SMe
amino acid	acyl	Cl	Cl	SEt
amino acid	acyl	Cl	Cl	S-cyclopropyl
amino acid	acyl	Cl	Cl	F
amino acid	acyl	Cl	Cl	Cl
amino acid	acyl	Cl	Cl	Br
amino acid	acyl	Cl	Cl	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	SH	SH	H
acyl	H	SH	SH	NH_2
acyl	H	SH	SH	NH-cyclopropyl
acyl	H	SH	SH	NH-methyl
acyl	H	SH	SH	NH-ethyl
acyl	H	SH	SH	NH-acetyl
acyl	H	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	H	SH	SH	SMe
acyl	H	SH	SH	SEt
acyl	H	SH	SH	S-cyclopropyl
acyl	H	SH	SH	F
acyl	H	SH	SH	Cl
acyl	H	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH_2
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	H
acyl	amino acid	SH	SH	NH_2
acyl	amino acid	SH	SH	NH-cyclopropyl
acyl	amino acid	SH	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	OH
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl
acyl	amino acid	SH	SH	SH
acyl	amino acid	SH	SH	SMe
acyl	amino acid	SH	SH	SEt
acyl	amino acid	SH	SH	S-cyclopropyl
acyl	amino acid	SH	SH	F
acyl	amino acid	SH	SH	Cl
acyl	amino acid	SH	SH	Br
acyl	amino acid	SH	SH	I
H	acyl	SH	SH	H
H	acyl	SH	SH	NH_2
H	acyl	SH	SH	NH-cyclopropyl
H	acyl	SH	SH	NH-methyl
H	acyl	SH	SH	NH-ethyl
H	acyl	SH	SH	NH-acetyl
H	acyl	SH	SH	OH
H	acyl	SH	SH	OMe
H	acyl	SH	SH	OEt
H	acyl	SH	SH	O-cyclopropyl
H	acyl	SH	SH	O-acetyl
H	acyl	SH	SH	SH
H	acyl	SH	SH	SMe
H	acyl	SH	SH	SEt
H	acyl	SH	SH	S-cyclopropyl
H	acyl	SH	SH	F
H	acyl	SH	SH	Cl
H	acyl	SH	SH	Br
H	acyl	SH	SH	I
H	amino acid	SH	SH	H
H	amino acid	SH	SH	NH_2
H	amino acid	SH	SH	NH-cyclopropyl
H	amino acid	SH	SH	NH-methyl
H	amino acid	SH	SH	NH-ethyl
H	amino acid	SH	SH	NH-acetyl
H	amino acid	SH	SH	OH
H	amino acid	SH	SH	OMe
H	amino acid	SH	SH	OEt
H	amino acid	SH	SH	O-cyclopropyl
H	amino acid	SH	SH	O-acetyl
H	amino acid	SH	SH	SH
H	amino acid	SH	SH	SMe

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	SH	SEt
H	amino acid	SH	SH	S-cyclopropyl
H	amino acid	SH	SH	F
H	amino acid	SH	SH	Cl
H	amino acid	SH	SH	Br
H	amino acid	SH	SH	I
amino acid	amino acid	SH	SH	H
amino acid	amino acid	SH	SH	NH_2
amino acid	amino acid	SH	SH	NH-cyclopropyl
amino acid	amino acid	SH	SH	NH-methyl
amino acid	amino acid	SH	SH	NH-ethyl
amino acid	amino acid	SH	SH	NH-acetyl
amino acid	amino acid	SH	SH	OH
amino acid	amino acid	SH	SH	OMe
amino acid	amino acid	SH	SH	OEt
amino acid	amino acid	SH	SH	O-cyclopropyl
amino acid	amino acid	SH	SH	O-acetyl
amino acid	amino acid	SH	SH	SH
amino acid	amino acid	SH	SH	SMe
amino acid	amino acid	SH	SH	SEt
amino acid	amino acid	SH	SH	S-cyclopropyl
amino acid	amino acid	SH	SH	F
amino acid	amino acid	SH	SH	Cl
amino acid	amino acid	SH	SH	Br
amino acid	amino acid	SH	SH	I
amino acid	H	SH	SH	H
amino acid	H	SH	SH	NH_2
amino acid	H	SH	SH	NH-cyclopropyl
amino acid	H	SH	SH	NH-methyl
amino acid	H	SH	SH	NH-ethyl
amino acid	H	SH	SH	NH-acetyl
amino acid	H	SH	SH	OH
amino acid	H	SH	SH	OMe
amino acid	H	SH	SH	OEt
amino acid	H	SH	SH	O-cyclopropyl
amino acid	H	SH	SH	O-acetyl
amino acid	H	SH	SH	SH
amino acid	H	SH	SH	SMe
amino acid	H	SH	SH	SEt
amino acid	H	SH	SH	S-cyclopropyl
amino acid	H	SH	SH	F
amino acid	H	SH	SH	Cl
amino acid	H	SH	SH	Br
amino acid	H	SH	SH	I
amino acid	acyl	SH	SH	H
amino acid	acyl	SH	SH	NH_2
amino acid	acyl	SH	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	SH	NH-methyl
amino acid	acyl	SH	SH	NH-ethyl
amino acid	acyl	SH	SH	NH-acetyl
amino acid	acyl	SH	SH	OH
amino acid	acyl	SH	SH	OMe
amino acid	acyl	SH	SH	OEt
amino acid	acyl	SH	SH	O-cyclopropyl
amino acid	acyl	SH	SH	O-acetyl
amino acid	acyl	SH	SH	SH
amino acid	acyl	SH	SH	SMe
amino acid	acyl	SH	SH	SEt
amino acid	acyl	SH	SH	S-cyclopropyl
amino acid	acyl	SH	SH	F
amino acid	acyl	SH	SH	Cl
amino acid	acyl	SH	SH	Br
amino acid	acyl	SH	SH	I

Table 8

R^2	R^3	X^1	Y
acyl	H	H	H
acyl	H	H	NH_2
acyl	H	H	NH-cyclopropyl
acyl	H	H	NH-methyl
acyl	H	H	NH-ethyl
acyl	H	H	NH-acetyl
acyl	H	H	OH
acyl	H	H	OMe
acyl	H	H	OEt
acyl	H	H	O-cyclopropyl
acyl	H	H	O-acetyl
acyl	H	H	SH
acyl	H	H	SMe
acyl	H	H	SEt
acyl	H	H	S-cyclopropyl
acyl	H	H	F
acyl	H	H	Cl
acyl	H	H	Br
acyl	H	H	I
acyl	acyl	H	H
acyl	acyl	H	NH_2
acyl	acyl	H	NH-cyclopropyl
acyl	acyl	H	NH-methyl
acyl	acyl	H	NH-ethyl
acyl	acyl	H	NH-acetyl
acyl	acyl	H	OH
acyl	acyl	H	OMe
acyl	acyl	H	OEt
acyl	acyl	H	O-cyclopropyl
acyl	acyl	H	O-acetyl
acyl	acyl	H	SH
acyl	acyl	H	SMe
acyl	acyl	H	SEt
acyl	acyl	H	S-cyclopropyl
acyl	acyl	H	F
acyl	acyl	H	Cl
acyl	acyl	H	Br
acyl	acyl	H	I
acyl	amino acid	H	H
acyl	amino acid	H	NH_2
acyl	amino acid	H	NH-cyclopropyl
acyl	amino acid	H	NH-methyl
acyl	amino acid	H	NH-ethyl
acyl	amino acid	H	NH-acetyl
acyl	amino acid	H	OH

R^2	R^3	X^1	Y
acyl	amino acid	H	OMe
acyl	amino acid	H	OEt
acyl	amino acid	H	O-cyclopropyl
acyl	amino acid	H	O-acetyl
acyl	amino acid	H	SH
acyl	amino acid	H	SMe
acyl	amino acid	H	SEt
acyl	amino acid	H	S-cyclopropyl
acyl	amino acid	H	F
acyl	amino acid	H	Cl
acyl	amino acid	H	Br
acyl	amino acid	H	I
H	acyl	H	H
H	acyl	H	NH_2
H	acyl	H	NH-cyclopropyl
H	acyl	H	NH-methyl
H	acyl	H	NH-ethyl
H	acyl	H	NH-acetyl
H	acyl	H	OH
H	acyl	H	OMe
H	acyl	H	OEt
H	acyl	H	O-cyclopropyl
H	acyl	H	O-acetyl
H	acyl	H	SH
H	acyl	H	SMe
H	acyl	H	SEt
H	acyl	H	S-cyclopropyl
H	acyl	H	F
H	acyl	H	Cl
H	acyl	H	Br
H	acyl	H	I
H	amino acid	H	H
H	amino acid	H	NH_2
H	amino acid	H	NH-cyclopropyl
H	amino acid	H	NH-methyl
H	amino acid	H	NH-ethyl
H	amino acid	H	NH-acetyl
H	amino acid	H	OH
H	amino acid	H	OMe
H	amino acid	H	OEt
H	amino acid	H	O-cyclopropyl
H	amino acid	H	O-acetyl
H	amino acid	H	SH
H	amino acid	H	SMe
H	amino acid	H	SEt
H	amino acid	H	S-cyclopropyl
H	amino acid	H	F

R^2	R^3	X^1	Y
H	amino acid	H	Cl
H	amino acid	H	Br
H	amino acid	H	I
amino acid	amino acid	H	H
amino acid	amino acid	H	NH_2
amino acid	amino acid	H	NH-cyclopropyl
amino acid	amino acid	H	NH-methyl
amino acid	amino acid	H	NH-ethyl
amino acid	amino acid	H	NH-acetyl
amino acid	amino acid	H	OH
amino acid	amino acid	H	OMe
amino acid	amino acid	H	OEt
amino acid	amino acid	H	O-cyclopropyl
amino acid	amino acid	H	O-acetyl
amino acid	amino acid	H	SH
amino acid	amino acid	H	SMe
amino acid	amino acid	H	SEt
amino acid	amino acid	H	S-cyclopropyl
amino acid	amino acid	H	F
amino acid	amino acid	H	Cl
amino acid	amino acid	H	Br
amino acid	amino acid	H	I
amino acid	H	H	H
amino acid	H	H	NH_2
amino acid	H	H	NH-cyclopropyl
amino acid	H	H	NH-methyl
amino acid	H	H	NH-ethyl
amino acid	H	H	NH-acetyl
amino acid	H	H	OH
amino acid	H	H	OMe
amino acid	H	H	OEt
amino acid	H	H	O-cyclopropyl
amino acid	H	H	O-acetyl
amino acid	H	H	SH
amino acid	H	H	SMe
amino acid	H	H	SEt
amino acid	H	H	S-cyclopropyl
amino acid	H	H	F
amino acid	H	H	Cl
amino acid	H	H	Br
amino acid	H	H	I
amino acid	acyl	H	H
amino acid	acyl	H	NH_2
amino acid	acyl	H	NH-cyclopropyl
amino acid	acyl	H	NH-methyl
amino acid	acyl	H	NH-ethyl
amino acid	acyl	H	NH-acetyl

R^2	R^3	X^1	Y
amino acid	acyl	H	OH
amino acid	acyl	H	OMe
amino acid	acyl	H	OEt
amino acid	acyl	H	O-cyclopropyl
amino acid	acyl	H	O-acetyl
amino acid	acyl	H	SH
amino acid	acyl	H	SMe
amino acid	acyl	H	SEt
amino acid	acyl	H	S-cyclopropyl
amino acid	acyl	H	F
amino acid	acyl	H	Cl
amino acid	acyl	H	Br
amino acid	acyl	H	I
acyl	H	SH	H
acyl	H	SH	NH_2
acyl	H	SH	NH-cyclopropyl
acyl	H	SH	NH-methyl
acyl	H	SH	NH-ethyl
acyl	H	SH	NH-acetyl
acyl	H	SH	OH
acyl	H	SH	OMe
acyl	H	SH	OEt
acyl	H	SH	O-cyclopropyl
acyl	H	SH	O-acetyl
acyl	H	SH	SH
acyl	H	SH	SMe
acyl	H	SH	SEt
acyl	H	SH	S-cyclopropyl
acyl	H	SH	F
acyl	H	SH	Cl
acyl	H	SH	Br
acyl	H	SH	I
acyl	acyl	SH	H
acyl	acyl	SH	NH_2
acyl	acyl	SH	NH-cyclopropyl
acyl	acyl	SH	NH-methyl
acyl	acyl	SH	NH-ethyl
acyl	acyl	SH	NH-acetyl
acyl	acyl	SH	OH
acyl	acyl	SH	OMe
acyl	acyl	SH	OEt
acyl	acyl	SH	O-cyclopropyl
acyl	acyl	SH	O-acetyl
acyl	acyl	SH	SH
acyl	acyl	SH	SMe
acyl	acyl	SH	SEt
acyl	acyl	SH	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	acyl	SH	F
acyl	acyl	SH	Cl
acyl	acyl	SH	Br
acyl	acyl	SH	I
acyl	amino acid	SH	H
acyl	amino acid	SH	NH_2
acyl	amino acid	SH	NH-cyclopropyl
acyl	amino acid	SH	NH-methyl
acyl	amino acid	SH	NH-ethyl
acyl	amino acid	SH	NH-acetyl
acyl	amino acid	SH	OH
acyl	amino acid	SH	OMe
acyl	amino acid	SH	OEt
acyl	amino acid	SH	O-cyclopropyl
acyl	amino acid	SH	O-acetyl
acyl	amino acid	SH	SH
acyl	amino acid	SH	SMe
acyl	amino acid	SH	SEt
acyl	amino acid	SH	S-cyclopropyl
acyl	amino acid	SH	F
acyl	amino acid	SH	Cl
acyl	amino acid	SH	Br
acyl	amino acid	SH	I
H	acyl	SH	H
H	acyl	SH	NH_2
H	acyl	SH	NH-cyclopropyl
H	acyl	SH	NH-methyl
H	acyl	SH	NH-ethyl
H	acyl	SH	NH-acetyl
H	acyl	SH	OH
H	acyl	SH	OMe
H	acyl	SH	OEt
H	acyl	SH	O-cyclopropyl
H	acyl	SH	O-acetyl
H	acyl	SH	SH
H	acyl	SH	SMe
H	acyl	SH	SEt
H	acyl	SH	S-cyclopropyl
H	acyl	SH	F
H	acyl	SH	Cl
H	acyl	SH	Br
H	acyl	SH	I
H	amino acid	SH	H
H	amino acid	SH	NH_2
H	amino acid	SH	NH-cyclopropyl
H	amino acid	SH	NH-methyl
H	amino acid	SH	NH-ethyl

R^2	R^3	X^1	Y
H	amino acid	SH	NH-acetyl
H	amino acid	SH	OH
H	amino acid	SH	OMe
H	amino acid	SH	OEt
H	amino acid	SH	O-cyclopropyl
H	amino acid	SH	O-acetyl
H	amino acid	SH	SH
H	amino acid	SH	SMe
H	amino acid	SH	SEt
H	amino acid	SH	S-cyclopropyl
H	amino acid	SH	F
H	amino acid	SH	Cl
H	amino acid	SH	Br
H	amino acid	SH	I
amino acid	amino acid	SH	H
amino acid	amino acid	SH	NH_2
amino acid	amino acid	SH	NH-cyclopropyl
amino acid	amino acid	SH	NH-methyl
amino acid	amino acid	SH	NH-ethyl
amino acid	amino acid	SH	NH-acetyl
amino acid	amino acid	SH	OH
amino acid	amino acid	SH	OMe
amino acid	amino acid	SH	OEt
amino acid	amino acid	SH	O-cyclopropyl
amino acid	amino acid	SH	O-acetyl
amino acid	amino acid	SH	SH
amino acid	amino acid	SH	SMe
amino acid	amino acid	SH	SEt
amino acid	amino acid	SH	S-cyclopropyl
amino acid	amino acid	SH	F
amino acid	amino acid	SH	Cl
amino acid	amino acid	SH	Br
amino acid	amino acid	SH	I
amino acid	H	SH	H
amino acid	H	SH	NH_2
amino acid	H	SH	NH-cyclopropyl
amino acid	H	SH	NH-methyl
amino acid	H	SH	NH-ethyl
amino acid	H	SH	NH-acetyl
amino acid	H	SH	OH
amino acid	H	SH	OMe
amino acid	H	SH	OEt
amino acid	H	SH	O-cyclopropyl
amino acid	H	SH	O-acetyl
amino acid	H	SH	SH
amino acid	H	SH	SMe
amino acid	H	SH	SEt

R^2	R^3	X^1	Y
amino acid	H	SH	S-cyclopropyl
amino acid	H	SH	F
amino acid	H	SH	Cl
amino acid	H	SH	Br
amino acid	H	SH	I
amino acid	acyl	SH	H
amino acid	acyl	SH	NH_2
amino acid	acyl	SH	NH-cyclopropyl
amino acid	acyl	SH	NH-methyl
amino acid	acyl	SH	NH-ethyl
amino acid	acyl	SH	NH-acetyl
amino acid	acyl	SH	OH
amino acid	acyl	SH	OMe
amino acid	acyl	SH	OEt
amino acid	acyl	SH	O-cyclopropyl
amino acid	acyl	SH	O-acetyl
amino acid	acyl	SH	SH
amino acid	acyl	SH	SMe
amino acid	acyl	SH	SEt
amino acid	acyl	SH	S-cyclopropyl
amino acid	acyl	SH	F
amino acid	acyl	SH	Cl
amino acid	acyl	SH	Br
amino acid	acyl	SH	I
acyl	H	Cl	H
acyl	H	Cl	NH_2
acyl	H	Cl	NH-cyclopropyl
acyl	H	Cl	NH-methyl
acyl	H	Cl	NH-ethyl
acyl	H	Cl	NH-acetyl
acyl	H	Cl	OH
acyl	H	Cl	OMe
acyl	H	Cl	OEt
acyl	H	Cl	O-cyclopropyl
acyl	H	Cl	O-acetyl
acyl	H	Cl	SH
acyl	H	Cl	SMe
acyl	H	Cl	SEt
acyl	H	Cl	S-cyclopropyl
acyl	H	Cl	F
acyl	H	Cl	Cl
acyl	H	Cl	Br
acyl	H	Cl	I
acyl	acyl	Cl	H
acyl	acyl	Cl	NH_2
acyl	acyl	Cl	NH-cyclopropyl
acyl	acyl	Cl	NH-methyl

R^2	R^3	X^1	Y
acyl	acyl	Cl	NH-ethyl
acyl	acyl	Cl	NH-acetyl
acyl	acyl	Cl	OH
acyl	acyl	Cl	OMe
acyl	acyl	Cl	OEt
acyl	acyl	Cl	O-cyclopropyl
acyl	acyl	Cl	O-acetyl
acyl	acyl	Cl	SH
acyl	acyl	Cl	SMe
acyl	acyl	Cl	SEt
acyl	acyl	Cl	S-cyclopropyl
acyl	acyl	Cl	F
acyl	acyl	Cl	Cl
acyl	acyl	Cl	Br
acyl	acyl	Cl	I
acyl	amino acid	Cl	H
acyl	amino acid	Cl	NH_2
acyl	amino acid	Cl	NH-cyclopropyl
acyl	amino acid	Cl	NH-methyl
acyl	amino acid	Cl	NH-ethyl
acyl	amino acid	Cl	NH-acetyl
acyl	amino acid	Cl	OH
acyl	amino acid	Cl	OMe
acyl	amino acid	Cl	OEt
acyl	amino acid	Cl	O-cyclopropyl
acyl	amino acid	Cl	O-acetyl
acyl	amino acid	Cl	SH
acyl	amino acid	Cl	SMe
acyl	amino acid	Cl	SEt
acyl	amino acid	Cl	S-cyclopropyl
acyl	amino acid	Cl	F
acyl	amino acid	Cl	Cl
acyl	amino acid	Cl	Br
acyl	amino acid	Cl	I
H	acyl	Cl	H
H	acyl	Cl	NH_2
H	acyl	Cl	NH-cyclopropyl
H	acyl	Cl	NH-methyl
H	acyl	Cl	NH-ethyl
H	acyl	Cl	NH-acetyl
H	acyl	Cl	OH
H	acyl	Cl	OMe
H	acyl	Cl	OEt
H	acyl	Cl	O-cyclopropyl
H	acyl	Cl	O-acetyl
H	acyl	Cl	SH
H	acyl	Cl	SMe

R^2	R^3	X^1	Y
H	acyl	Cl	SEt
H	acyl	Cl	S-cyclopropyl
H	acyl	Cl	F
H	acyl	Cl	Cl
H	acyl	Cl	Br
H	acyl	Cl	I
H	amino acid	Cl	H
H	amino acid	Cl	NH_2
H	amino acid	Cl	NH-cyclopropyl
H	amino acid	Cl	NH-methyl
H	amino acid	Cl	NH-ethyl
H	amino acid	Cl	NH-acetyl
H	amino acid	Cl	OH
H	amino acid	Cl	OMe
H	amino acid	Cl	OEt
H	amino acid	Cl	O-cyclopropyl
H	amino acid	Cl	O-acetyl
H	amino acid	Cl	SH
H	amino acid	Cl	SMe
H	amino acid	Cl	SEt
H	amino acid	Cl	S-cyclopropyl
H	amino acid	Cl	F
H	amino acid	Cl	Cl
H	amino acid	Cl	Br
H	amino acid	Cl	I
amino acid	amino acid	Cl	H
amino acid	amino acid	Cl	NH_2
amino acid	amino acid	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	NH-methyl
amino acid	amino acid	Cl	NH-ethyl
amino acid	amino acid	Cl	NH-acetyl
amino acid	amino acid	Cl	OH
amino acid	amino acid	Cl	OMe
amino acid	amino acid	Cl	OEt
amino acid	amino acid	Cl	O-cyclopropyl
amino acid	amino acid	Cl	O-acetyl
amino acid	amino acid	Cl	SH
amino acid	amino acid	Cl	SMe
amino acid	amino acid	Cl	SEt
amino acid	amino acid	Cl	S-cyclopropyl
amino acid	amino acid	Cl	F
amino acid	amino acid	Cl	Cl
amino acid	amino acid	Cl	Br
amino acid	amino acid	Cl	I
amino acid	H	Cl	H
amino acid	H	Cl	NH_2
amino acid	H	Cl	NH-cyclopropyl

R^2	R^3	X^1	Y
amino acid	H	Cl	NH-methyl
amino acid	H	Cl	NH-ethyl
amino acid	H	Cl	NH-acetyl
amino acid	H	Cl	OH
amino acid	H	Cl	OMe
amino acid	H	Cl	OEt
amino acid	H	Cl	O-cyclopropyl
amino acid	H	Cl	O-acetyl
amino acid	H	Cl	SH
amino acid	H	Cl	SMe
amino acid	H	Cl	SEt
amino acid	H	Cl	S-cyclopropyl
amino acid	H	Cl	F
amino acid	H	Cl	Cl
amino acid	H	Cl	Br
amino acid	H	Cl	I
amino acid	acyl	Cl	H
amino acid	acyl	Cl	NH_2
amino acid	acyl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	NH-methyl
amino acid	acyl	Cl	NH-ethyl
amino acid	acyl	Cl	NH-acetyl
amino acid	acyl	Cl	OH
amino acid	acyl	Cl	OMe
amino acid	acyl	Cl	OEt
amino acid	acyl	Cl	O-cyclopropyl
amino acid	acyl	Cl	O-acetyl
amino acid	acyl	Cl	SH
amino acid	acyl	Cl	SMe
amino acid	acyl	Cl	SEt
amino acid	acyl	Cl	S-cyclopropyl
amino acid	acyl	Cl	F
amino acid	acyl	Cl	Cl
amino acid	acyl	Cl	Br
amino acid	acyl	Cl	I
acyl	H	Br	H
acyl	H	Br	NH_2
acyl	H	Br	NH-cyclopropyl
acyl	H	Br	NH-methyl
acyl	H	Br	NH-ethyl
acyl	H	Br	NH-acetyl
acyl	H	Br	OH
acyl	H	Br	OMe
acyl	H	Br	OEt
acyl	H	Br	O-cyclopropyl
acyl	H	Br	O-acetyl
acyl	H	Br	SH

R^2	R^3	X^1	Y
acyl	H	Br	SMe
acyl	H	Br	SEt
acyl	H	Br	S-cyclopropyl
acyl	H	Br	F
acyl	H	Br	Cl
acyl	H	Br	Br
acyl	H	Br	I
acyl	acyl	Br	H
acyl	acyl	Br	NH_2
acyl	acyl	Br	NH-cyclopropyl
acyl	acyl	Br	NH-methyl
acyl	acyl	Br	NH-ethyl
acyl	acyl	Br	NH-acetyl
acyl	acyl	Br	OH
acyl	acyl	Br	OMe
acyl	acyl	Br	OEt
acyl	acyl	Br	O-cyclopropyl
acyl	acyl	Br	O-acetyl
acyl	acyl	Br	SH
acyl	acyl	Br	SMe
acyl	acyl	Br	SEt
acyl	acyl	Br	S-cyclopropyl
acyl	acyl	Br	F
acyl	acyl	Br	Cl
acyl	acyl	Br	Br
acyl	acyl	Br	I
acyl	amino acid	Br	H
acyl	amino acid	Br	NH_2
acyl	amino acid	Br	NH-cyclopropyl
acyl	amino acid	Br	NH-methyl
acyl	amino acid	Br	NH-ethyl
acyl	amino acid	Br	NH-acetyl
acyl	amino acid	Br	OH
acyl	amino acid	Br	OMe
acyl	amino acid	Br	OEt
acyl	amino acid	Br	O-cyclopropyl
acyl	amino acid	Br	O-acetyl
acyl	amino acid	Br	SH
acyl	amino acid	Br	SMe
acyl	amino acid	Br	SEt
acyl	amino acid	Br	S-cyclopropyl
acyl	amino acid	Br	F
acyl	amino acid	Br	Cl
acyl	amino acid	Br	Br
acyl	amino acid	Br	I
H	acyl	Br	H
H	acyl	Br	NH_2

R^2	R^3	X^1	Y
H	acyl	Br	NH-cyclopropyl
H	acyl	Br	NH-methyl
H	acyl	Br	NH-ethyl
H	acyl	Br	NH-acetyl
H	acyl	Br	OH
H	acyl	Br	OMe
H	acyl	Br	OEt
H	acyl	Br	O-cyclopropyl
H	acyl	Br	O-acetyl
H	acyl	Br	SH
H	acyl	Br	SMe
H	acyl	Br	SEt
H	acyl	Br	S-cyclopropyl
H	acyl	Br	F
H	acyl	Br	Cl
H	acyl	Br	Br
H	acyl	Br	I
H	amino acid	Br	H
H	amino acid	Br	NH_2
H	amino acid	Br	NH-cyclopropyl
H	amino acid	Br	NH-methyl
H	amino acid	Br	NH-ethyl
H	amino acid	Br	NH-acetyl
H	amino acid	Br	OH
H	amino acid	Br	OMe
H	amino acid	Br	OEt
H	amino acid	Br	O-cyclopropyl
H	amino acid	Br	O-acetyl
H	amino acid	Br	SH
H	amino acid	Br	SMe
H	amino acid	Br	SEt
H	amino acid	Br	S-cyclopropyl
H	amino acid	Br	F
H	amino acid	Br	Cl
H	amino acid	Br	Br
H	amino acid	Br	I
amino acid	amino acid	Br	H
amino acid	amino acid	Br	NH_2
amino acid	amino acid	Br	NH-cyclopropyl
amino acid	amino acid	Br	NH-methyl
amino acid	amino acid	Br	NH-ethyl
amino acid	amino acid	Br	NH-acetyl
amino acid	amino acid	Br	OH
amino acid	amino acid	Br	OMe
amino acid	amino acid	Br	OEt
amino acid	amino acid	Br	O-cyclopropyl
amino acid	amino acid	Br	O-acetyl

R^2	R^3	X^1	Y
amino acid	amino acid	Br	SH
amino acid	amino acid	Br	SMe
amino acid	amino acid	Br	SEt
amino acid	amino acid	Br	S-cyclopropyl
amino acid	amino acid	Br	F
amino acid	amino acid	Br	Cl
amino acid	amino acid	Br	Br
amino acid	amino acid	Br	I
amino acid	H	Br	H
amino acid	H	Br	NH_2
amino acid	H	Br	NH-cyclopropyl
amino acid	H	Br	NH-methyl
amino acid	H	Br	NH-ethyl
amino acid	H	Br	NH-acetyl
amino acid	H	Br	OH
amino acid	H	Br	OMe
amino acid	H	Br	OEt
amino acid	H	Br	O-cyclopropyl
amino acid	H	Br	O-acetyl
amino acid	H	Br	SH
amino acid	H	Br	SMe
amino acid	H	Br	SEt
amino acid	H	Br	S-cyclopropyl
amino acid	H	Br	F
amino acid	H	Br	Cl
amino acid	H	Br	Br
amino acid	H	Br	I
amino acid	acyl	Br	H
amino acid	acyl	Br	NH_2
amino acid	acyl	Br	NH-cyclopropyl
amino acid	acyl	Br	NH-methyl
amino acid	acyl	Br	NH-ethyl
amino acid	acyl	Br	NH-acetyl
amino acid	acyl	Br	OH
amino acid	acyl	Br	OMe
amino acid	acyl	Br	OEt
amino acid	acyl	Br	O-cyclopropyl
amino acid	acyl	Br	O-acetyl
amino acid	acyl	Br	SH
amino acid	acyl	Br	SMe
amino acid	acyl	Br	SEt
amino acid	acyl	Br	S-cyclopropyl
amino acid	acyl	Br	F
amino acid	acyl	Br	Cl
amino acid	acyl	Br	Br
amino acid	acyl	Br	I
acyl	H	NH_2	H

R^2	R^3	X^1	Y
acyl	H	NH_2	NH_2
acyl	H	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH-methyl
acyl	H	NH_2	NH-ethyl
acyl	H	NH_2	NH-acetyl
acyl	H	NH_2	OH
acyl	H	NH_2	OMe
acyl	H	NH_2	OEt
acyl	H	NH_2	O-cyclopropyl
acyl	H	NH_2	O-acetyl
acyl	H	NH_2	SH
acyl	H	NH_2	SMe
acyl	H	NH_2	SEt
acyl	H	NH_2	S-cyclopropyl
acyl	H	NH_2	F
acyl	H	NH_2	Cl
acyl	H	NH_2	Br
acyl	H	NH_2	I
acyl	acyl	NH_2	H
acyl	acyl	NH_2	NH_2
acyl	acyl	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH-methyl
acyl	acyl	NH_2	NH-ethyl
acyl	acyl	NH_2	NH-acetyl
acyl	acyl	NH_2	OH
acyl	acyl	NH_2	OMe
acyl	acyl	NH_2	OEt
acyl	acyl	NH_2	O-cyclopropyl
acyl	acyl	NH_2	O-acetyl
acyl	acyl	NH_2	SH
acyl	acyl	NH_2	SMe
acyl	acyl	NH_2	SEt
acyl	acyl	NH_2	S-cyclopropyl
acyl	acyl	NH_2	F
acyl	acyl	NH_2	Cl
acyl	acyl	NH_2	Br
acyl	acyl	NH_2	I
acyl	amino acid	NH_2	H
acyl	amino acid	NH_2	NH_2
acyl	amino acid	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH-methyl
acyl	amino acid	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH-acetyl
acyl	amino acid	NH_2	OH
acyl	amino acid	NH_2	OMe
acyl	amino acid	NH_2	OEt
acyl	amino acid	NH_2	O-cyclopropyl

R^2	R^3	X^1	Y
acyl	amino acid	NH_2	O-acetyl
acyl	amino acid	NH_2	SH
acyl	amino acid	NH_2	SMe
acyl	amino acid	NH_2	SEt
acyl	amino acid	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	F
acyl	amino acid	NH_2	Cl
acyl	amino acid	NH_2	Br
acyl	amino acid	NH_2	I
H	acyl	NH_2	H
H	acyl	NH_2	NH_2
H	acyl	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH-methyl
H	acyl	NH_2	NH-ethyl
H	acyl	NH_2	NH-acetyl
H	acyl	NH_2	OH
H	acyl	NH_2	OMe
H	acyl	NH_2	OEt
H	acyl	NH_2	O-cyclopropyl
H	acyl	NH_2	O-acetyl
H	acyl	NH_2	SH
H	acyl	NH_2	SMe
H	acyl	NH_2	SEt
H	acyl	NH_2	S-cyclopropyl
H	acyl	NH_2	F
H	acyl	NH_2	Cl
H	acyl	NH_2	Br
H	acyl	NH_2	I
H	amino acid	NH_2	H
H	amino acid	NH_2	NH_2
H	amino acid	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH-methyl
H	amino acid	NH_2	NH-ethyl
H	amino acid	NH_2	NH-acetyl
H	amino acid	NH_2	OH
H	amino acid	NH_2	OMe
H	amino acid	NH_2	OEt
H	amino acid	NH_2	O-cyclopropyl
H	amino acid	NH_2	O-acetyl
H	amino acid	NH_2	SH
H	amino acid	NH_2	SMe
H	amino acid	NH_2	SEt
H	amino acid	NH_2	S-cyclopropyl
H	amino acid	NH_2	F
H	amino acid	NH_2	Cl
H	amino acid	NH_2	Br
H	amino acid	NH_2	I

R^2	R^3	X^1	Y
amino acid	amino acid	NH_2	H
amino acid	amino acid	NH_2	NH_2
amino acid	amino acid	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH-acetyl
amino acid	amino acid	NH_2	OH
amino acid	amino acid	NH_2	OMe
amino acid	amino acid	NH_2	OEt
amino acid	amino acid	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	O-acetyl
amino acid	amino acid	NH_2	SH
amino acid	amino acid	NH_2	SMe
amino acid	amino acid	NH_2	SEt
amino acid	amino acid	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	F
amino acid	amino acid	NH_2	Cl
amino acid	amino acid	NH_2	Br
amino acid	amino acid	NH_2	I
amino acid	H	NH_2	H
amino acid	H	NH_2	NH_2
amino acid	H	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH-methyl
amino acid	H	NH_2	NH-ethyl
amino acid	H	NH_2	NH-acetyl
amino acid	H	NH_2	OH
amino acid	H	NH_2	OMe
amino acid	H	NH_2	OEt
amino acid	H	NH_2	O-cyclopropyl
amino acid	H	NH_2	O-acetyl
amino acid	H	NH_2	SH
amino acid	H	NH_2	SMe
amino acid	H	NH_2	SEt
amino acid	H	NH_2	S-cyclopropyl
amino acid	H	NH_2	F
amino acid	H	NH_2	Cl
amino acid	H	NH_2	Br
amino acid	H	NH_2	I
amino acid	acyl	NH_2	H
amino acid	acyl	NH_2	NH_2
amino acid	acyl	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH-methyl
amino acid	acyl	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH-acetyl
amino acid	acyl	NH_2	OH
amino acid	acyl	NH_2	OMe
amino acid	acyl	NH_2	OEt

R^2	R^3	X^1	Y
amino acid	acyl	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	O-acetyl
amino acid	acyl	NH_2	SH
amino acid	acyl	NH_2	SMe
amino acid	acyl	NH_2	SEt
amino acid	acyl	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	F
amino acid	acyl	NH_2	Cl
amino acid	acyl	NH_2	Br
amino acid	acyl	NH_2	I
acyl	H	OH	H
acyl	H	OH	NH_2
acyl	H	OH	NH-cyclopropyl
acyl	H	OH	NH-methyl
acyl	H	OH	NH-ethyl
acyl	H	OH	NH-acetyl
acyl	H	OH	OH
acyl	H	OH	OMe
acyl	H	OH	OEt
acyl	H	OH	O-cyclopropyl
acyl	H	OH	O-acetyl
acyl	H	OH	SH
acyl	H	OH	SMe
acyl	H	OH	SEt
acyl	H	OH	S-cyclopropyl
acyl	H	OH	F
acyl	H	OH	Cl
acyl	H	OH	Br
acyl	H	OH	I
acyl	acyl	OH	H
acyl	acyl	OH	NH_2
acyl	acyl	OH	NH-cyclopropyl
acyl	acyl	OH	NH-methyl
acyl	acyl	OH	NH-ethyl
acyl	acyl	OH	NH-acetyl
acyl	acyl	OH	OH
acyl	acyl	OH	OMe
acyl	acyl	OH	OEt
acyl	acyl	OH	O-cyclopropyl
acyl	acyl	OH	O-acetyl
acyl	acyl	OH	SH
acyl	acyl	OH	SMe
acyl	acyl	OH	SEt
acyl	acyl	OH	S-cyclopropyl
acyl	acyl	OH	F
acyl	acyl	OH	Cl
acyl	acyl	OH	Br

R^2	R^3	X^1	Y
acyl	acyl	OH	I
acyl	amino acid	OH	H
acyl	amino acid	OH	NH_2
acyl	amino acid	OH	NH-cyclopropyl
acyl	amino acid	OH	NH-methyl
acyl	amino acid	OH	NH-ethyl
acyl	amino acid	OH	NH-acetyl
acyl	amino acid	OH	OH
acyl	amino acid	OH	OMe
acyl	amino acid	OH	OEt
acyl	amino acid	OH	O-cyclopropyl
acyl	amino acid	OH	O-acetyl
acyl	amino acid	OH	SH
acyl	amino acid	OH	SMe
acyl	amino acid	OH	SEt
acyl	amino acid	OH	S-cyclopropyl
acyl	amino acid	OH	F
acyl	amino acid	OH	Cl
acyl	amino acid	OH	Br
acyl	amino acid	OH	I
H	acyl	OH	H
H	acyl	OH	NH_2
H	acyl	OH	NH-cyclopropyl
H	acyl	OH	NH-methyl
H	acyl	OH	NH-ethyl
H	acyl	OH	NH-acetyl
H	acyl	OH	OH
H	acyl	OH	OMe
H	acyl	OH	OEt
H	acyl	OH	O-cyclopropyl
H	acyl	OH	O-acetyl
H	acyl	OH	SH
H	acyl	OH	SMe
H	acyl	OH	SEt
H	acyl	OH	S-cyclopropyl
H	acyl	OH	F
H	acyl	OH	Cl
H	acyl	OH	Br
H	acyl	OH	I
H	amino acid	OH	H
H	amino acid	OH	NH_2
H	amino acid	OH	NH-cyclopropyl
H	amino acid	OH	NH-methyl
H	amino acid	OH	NH-ethyl
H	amino acid	OH	NH-acetyl
H	amino acid	OH	OH
H	amino acid	OH	OMe

R^2	R^3	X^1	Y
H	amino acid	OH	OEt
H	amino acid	OH	O-cyclopropyl
H	amino acid	OH	O-acetyl
H	amino acid	OH	SH
H	amino acid	OH	SMe
H	amino acid	OH	SEt
H	amino acid	OH	S-cyclopropyl
H	amino acid	OH	F
H	amino acid	OH	Cl
H	amino acid	OH	Br
H	amino acid	OH	I
amino acid	amino acid	OH	H
amino acid	amino acid	OH	NH_2
amino acid	amino acid	OH	NH-cyclopropyl
amino acid	amino acid	OH	NH-methyl
amino acid	amino acid	OH	NH-ethyl
amino acid	amino acid	OH	NH-acetyl
amino acid	amino acid	OH	OH
amino acid	amino acid	OH	OMe
amino acid	amino acid	OH	OEt
amino acid	amino acid	OH	O-cyclopropyl
amino acid	amino acid	OH	O-acetyl
amino acid	amino acid	OH	SH
amino acid	amino acid	OH	SMe
amino acid	amino acid	OH	SEt
amino acid	amino acid	OH	S-cyclopropyl
amino acid	amino acid	OH	F
amino acid	amino acid	OH	Cl
amino acid	amino acid	OH	Br
amino acid	amino acid	OH	I
amino acid	H	OH	H
amino acid	H	OH	NH_2
amino acid	H	OH	NH-cyclopropyl
amino acid	H	OH	NH-methyl
amino acid	H	OH	NH-ethyl
amino acid	H	OH	NH-acetyl
amino acid	H	OH	OH
amino acid	H	OH	OMe
amino acid	H	OH	OEt
amino acid	H	OH	O-cyclopropyl
amino acid	H	OH	O-acetyl
amino acid	H	OH	SH
amino acid	H	OH	SMe
amino acid	H	OH	SEt
amino acid	H	OH	S-cyclopropyl
amino acid	H	OH	F
amino acid	H	OH	Cl

R^2	R^3	X^1	Y
amino acid	H	OH	Br
amino acid	H	OH	I
amino acid	acyl	OH	H
amino acid	acyl	OH	NH_2
amino acid	acyl	OH	NH-cyclopropyl
amino acid	acyl	OH	NH-methyl
amino acid	acyl	OH	NH-ethyl
amino acid	acyl	OH	NH-acetyl
amino acid	acyl	OH	OH
amino acid	acyl	OH	OMe
amino acid	acyl	OH	OEt
amino acid	acyl	OH	O-cyclopropyl
amino acid	acyl	OH	O-acetyl
amino acid	acyl	OH	SH
amino acid	acyl	OH	SMe
amino acid	acyl	OH	SEt
amino acid	acyl	OH	S-cyclopropyl
amino acid	acyl	OH	F
amino acid	acyl	OH	Cl
amino acid	acyl	OH	Br
amino acid	acyl	OH	I
acyl	H	F	H
acyl	H	F	NH_2
acyl	H	F	NH-cyclopropyl
acyl	H	F	NH-methyl
acyl	H	F	NH-ethyl
acyl	H	F	NH-acetyl
acyl	H	F	OH
acyl	H	F	OMe
acyl	H	F	OEt
acyl	H	F	O-cyclopropyl
acyl	H	F	O-acetyl
acyl	H	F	SH
acyl	H	F	SMe
acyl	H	F	SEt
acyl	H	F	S-cyclopropyl
acyl	H	F	F
acyl	H	F	Cl
acyl	H	F	Br
acyl	H	F	I
acyl	acyl	F	H
acyl	acyl	F	NH_2
acyl	acyl	F	NH-cyclopropyl
acyl	acyl	F	NH-methyl
acyl	acyl	F	NH-ethyl
acyl	acyl	F	NH-acetyl
acyl	acyl	F	OH

R^2	R^3	X^1	Y
acyl	acyl	F	OMe
acyl	acyl	F	OEt
acyl	acyl	F	O-cyclopropyl
acyl	acyl	F	O-acetyl
acyl	acyl	F	SH
acyl	acyl	F	SMe
acyl	acyl	F	SEt
acyl	acyl	F	S-cyclopropyl
acyl	acyl	F	F
acyl	acyl	F	Cl
acyl	acyl	F	Br
acyl	acyl	F	I
acyl	amino acid	F	H
acyl	amino acid	F	NH_2
acyl	amino acid	F	NH-cyclopropyl
acyl	amino acid	F	NH-methyl
acyl	amino acid	F	NH-ethyl
acyl	amino acid	F	NH-acetyl
acyl	amino acid	F	OH
acyl	amino acid	F	OMe
acyl	amino acid	F	OEt
acyl	amino acid	F	O-cyclopropyl
acyl	amino acid	F	O-acetyl
acyl	amino acid	F	SH
acyl	amino acid	F	SMe
acyl	amino acid	F	SEt
acyl	amino acid	F	S-cyclopropyl
acyl	amino acid	F	F
acyl	amino acid	F	Cl
acyl	amino acid	F	Br
acyl	amino acid	F	I
H	acyl	F	H
H	acyl	F	NH_2
H	acyl	F	NH-cyclopropyl
H	acyl	F	NH-methyl
H	acyl	F	NH-ethyl
H	acyl	F	NH-acetyl
H	acyl	F	OH
H	acyl	F	OMe
H	acyl	F	OEt
H	acyl	F	O-cyclopropyl
H	acyl	F	O-acetyl
H	acyl	F	SH
H	acyl	F	SMe
H	acyl	F	SEt
H	acyl	F	S-cyclopropyl
H	acyl	F	F

R^2	R^3	X^1	Y
H	acyl	F	Cl
H	acyl	F	Br
H	acyl	F	I
H	amino acid	F	H
H	amino acid	F	NH_2
H	amino acid	F	NH-cyclopropyl
H	amino acid	F	NH-methyl
H	amino acid	F	NH-ethyl
H	amino acid	F	NH-acetyl
H	amino acid	F	OH
H	amino acid	F	OMe
H	amino acid	F	OEt
H	amino acid	F	O-cyclopropyl
H	amino acid	F	O-acetyl
H	amino acid	F	SH
H	amino acid	F	SMe
H	amino acid	F	SEt
H	amino acid	F	S-cyclopropyl
H	amino acid	F	F
H	amino acid	F	Cl
H	amino acid	F	Br
H	amino acid	F	I
amino acid	amino acid	F	H
amino acid	amino acid	F	NH_2
amino acid	amino acid	F	NH-cyclopropyl
amino acid	amino acid	F	NH-methyl
amino acid	amino acid	F	NH-ethyl
amino acid	amino acid	F	NH-acetyl
amino acid	amino acid	F	OH
amino acid	amino acid	F	OMe
amino acid	amino acid	F	OEt
amino acid	amino acid	F	O-cyclopropyl
amino acid	amino acid	F	O-acetyl
amino acid	amino acid	F	SH
amino acid	amino acid	F	SMe
amino acid	amino acid	F	SEt
amino acid	amino acid	F	S-cyclopropyl
amino acid	amino acid	F	F
amino acid	amino acid	F	Cl
amino acid	amino acid	F	Br
amino acid	amino acid	F	I
amino acid	H	F	H
amino acid	H	F	NH_2
amino acid	H	F	NH-cyclopropyl
amino acid	H	F	NH-methyl
amino acid	H	F	NH-ethyl
amino acid	H	F	NH-acetyl

R^2	R^3	X^1	Y
amino acid	H	F	OH
amino acid	H	F	OMe
amino acid	H	F	OEt
amino acid	H	F	O-cyclopropyl
amino acid	H	F	O-acetyl
amino acid	H	F	SH
amino acid	H	F	SMe
amino acid	H	F	SEt
amino acid	H	F	S-cyclopropyl
amino acid	H	F	F
amino acid	H	F	Cl
amino acid	H	F	Br
amino acid	H	F	I
amino acid	acyl	F	H
amino acid	acyl	F	NH_2
amino acid	acyl	F	NH-cyclopropyl
amino acid	acyl	F	NH-methyl
amino acid	acyl	F	NH-ethyl
amino acid	acyl	F	NH-acetyl
amino acid	acyl	F	OH
amino acid	acyl	F	OMe
amino acid	acyl	F	OEt
amino acid	acyl	F	O-cyclopropyl
amino acid	acyl	F	O-acetyl
amino acid	acyl	F	SH
amino acid	acyl	F	SMe
amino acid	acyl	F	SEt
amino acid	acyl	F	S-cyclopropyl
amino acid	acyl	F	F
amino acid	acyl	F	Cl
amino acid	acyl	F	Br
amino acid	acyl	F	I
acyl	H	I	H
acyl	H	I	NH_2
acyl	H	I	NH-cyclopropyl
acyl	H	I	NH-methyl
acyl	H	I	NH-ethyl
acyl	H	I	NH-acetyl
acyl	H	I	OH
acyl	H	I	OMe
acyl	H	I	OEt
acyl	H	I	O-cyclopropyl
acyl	H	I	O-acetyl
acyl	H	I	SH
acyl	H	I	SMe
acyl	H	I	SEt
acyl	H	I	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	H	I	F
acyl	H	I	Cl
acyl	H	I	Br
acyl	H	I	I
acyl	acyl	I	H
acyl	acyl	I	NH_2
acyl	acyl	I	NH-cyclopropyl
acyl	acyl	I	NH-methyl
acyl	acyl	I	NH-ethyl
acyl	acyl	I	NH-acetyl
acyl	acyl	I	OH
acyl	acyl	I	OMe
acyl	acyl	I	OEt
acyl	acyl	I	O-cyclopropyl
acyl	acyl	I	O-acetyl
acyl	acyl	I	SH
acyl	acyl	I	SMe
acyl	acyl	I	SEt
acyl	acyl	I	S-cyclopropyl
acyl	acyl	I	F
acyl	acyl	I	Cl
acyl	acyl	I	Br
acyl	acyl	I	I
acyl	amino acid	I	H
acyl	amino acid	I	NH_2
acyl	amino acid	I	NH-cyclopropyl
acyl	amino acid	I	NH-methyl
acyl	amino acid	I	NH-ethyl
acyl	amino acid	I	NH-acetyl
acyl	amino acid	I	OH
acyl	amino acid	I	OMe
acyl	amino acid	I	OEt
acyl	amino acid	I	O-cyclopropyl
acyl	amino acid	I	O-acetyl
acyl	amino acid	I	SH
acyl	amino acid	I	SMe
acyl	amino acid	I	SEt
acyl	amino acid	I	S-cyclopropyl
acyl	amino acid	I	F
acyl	amino acid	I	Cl
acyl	amino acid	I	Br
acyl	amino acid	I	I
H	acyl	I	H
H	acyl	I	NH_2
H	acyl	I	NH-cyclopropyl
H	acyl	I	NH-methyl
H	acyl	I	NH-ethyl

R^2	R^3	X^1	Y
H	acyl	I	NH-acetyl
H	acyl	I	OH
H	acyl	I	OMe
H	acyl	I	OEt
H	acyl	I	O-cyclopropyl
H	acyl	I	O-acetyl
H	acyl	I	SH
H	acyl	I	SMe
H	acyl	I	SEt
H	acyl	I	S-cyclopropyl
H	acyl	I	F
H	acyl	I	Cl
H	acyl	I	Br
H	acyl	I	I
H	amino acid	I	H
H	amino acid	I	NH_2
H	amino acid	I	NH-cyclopropyl
H	amino acid	I	NH-methyl
H	amino acid	I	NH-ethyl
H	amino acid	I	NH-acetyl
H	amino acid	I	OH
H	amino acid	I	OMe
H	amino acid	I	OEt
H	amino acid	I	O-cyclopropyl
H	amino acid	I	O-acetyl
H	amino acid	I	SH
H	amino acid	I	SMe
H	amino acid	I	SEt
H	amino acid	I	S-cyclopropyl
H	amino acid	I	F
H	amino acid	I	Cl
H	amino acid	I	Br
H	amino acid	I	I
amino acid	amino acid	I	H
amino acid	amino acid	I	NH_2
amino acid	amino acid	I	NH-cyclopropyl
amino acid	amino acid	I	NH-methyl
amino acid	amino acid	I	NH-ethyl
amino acid	amino acid	I	NH-acetyl
amino acid	amino acid	I	OH
amino acid	amino acid	I	OMe
amino acid	amino acid	I	OEt
amino acid	amino acid	I	O-cyclopropyl
amino acid	amino acid	I	O-acetyl
amino acid	amino acid	I	SH
amino acid	amino acid	I	SMe
amino acid	amino acid	I	SEt

R^2	R^3	X^1	Y
amino acid	amino acid	I	S-cyclopropyl
amino acid	amino acid	I	F
amino acid	amino acid	I	Cl
amino acid	amino acid	I	Br
amino acid	amino acid	I	I
amino acid	H	I	H
amino acid	H	I	NH_2
amino acid	H	I	NH-cyclopropyl
amino acid	H	I	NH-methyl
amino acid	H	I	NH-ethyl
amino acid	H	I	NH-acetyl
amino acid	H	I	OH
amino acid	H	I	OMe
amino acid	H	I	OEt
amino acid	H	I	O-cyclopropyl
amino acid	H	I	O-acetyl
amino acid	H	I	SH
amino acid	H	I	SMe
amino acid	H	I	SEt
amino acid	H	I	S-cyclopropyl
amino acid	H	I	F
amino acid	H	I	Cl
amino acid	H	I	Br
amino acid	H	I	I
amino acid	acyl	I	H
amino acid	acyl	I	NH_2
amino acid	acyl	I	NH-cyclopropyl
amino acid	acyl	I	NH-methyl
amino acid	acyl	I	NH-ethyl
amino acid	acyl	I	NH-acetyl
amino acid	acyl	I	OH
amino acid	acyl	I	OMe
amino acid	acyl	I	OEt
amino acid	acyl	I	O-cyclopropyl
amino acid	acyl	I	O-acetyl
amino acid	acyl	I	SH
amino acid	acyl	I	SMe
amino acid	acyl	I	SEt
amino acid	acyl	I	S-cyclopropyl
amino acid	acyl	I	F
amino acid	acyl	I	Cl
amino acid	acyl	I	Br
amino acid	acyl	I	I

Table 9

R^2	R^3	R^6	X	Base
acyl	H	CH_3	O	Thymine
acyl	H	CH_3	O	Uracil
acyl	H	CH_3	O	Guanine
acyl	H	CH_3	O	Cytosine
acyl	H	CH_3	O	Adenine
acyl	H	CH_3	O	Hypoxanthine
acyl	H	CH_3	O	5-Fluorouracil
acyl	H	CH_3	O	8-Fluoroguanine
acyl	H	CH_3	O	5-Fluorocytosine
acyl	H	CH_3	O	8-Fluoroadenine
acyl	H	CH_3	O	2-Fluoroadenine
acyl	H	CH_3	O	2,8-Difluoroadenine
acyl	H	CH_3	O	2-Fluorohypoxanthine
acyl	H	CH_3	O	8-Fluorohypoxanthine
acyl	H	CH_3	O	2,8-Difluorohypoxanthine
acyl	H	CH_3	O	2-Aminoadenine
acyl	H	CH_3	O	2-Amino-8-fluoroadenine
acyl	H	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-Aminohypoxanthine
acyl	H	CH_3	O	2-N-acetylguanine
acyl	H	CH_3	O	4-N-acetylcytosine
acyl	H	CH_3	O	6-N-acetyladenine
acyl	H	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylaminoadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	O	Thymine
acyl	acyl	CH_3	O	Uracil
acyl	acyl	CH_3	O	Guanine
acyl	acyl	CH_3	O	Cytosine
acyl	acyl	CH_3	O	Adenine
acyl	acyl	CH_3	O	Hypoxanthine
acyl	acyl	CH_3	O	5-Fluorouracil
acyl	acyl	CH_3	O	8-Fluoroguanine
acyl	acyl	CH_3	O	5-Fluorocytosine
acyl	acyl	CH_3	O	8-Fluoroadenine
acyl	acyl	CH_3	O	2-Fluoroadenine
acyl	acyl	CH_3	O	2,8-Difluoroadenine
acyl	acyl	CH_3	O	2-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CH_3	O	8-Fluorohypoxanthine
acyl	acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminoadenine
acyl	acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylguanine
acyl	acyl	CH_3	O	4-N-acetylcytosine
acyl	acyl	CH_3	O	6-N-acetyladenine
acyl	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylaminoadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	O	Thymine
acyl	amino acid	CH_3	O	Uracil
acyl	amino acid	CH_3	O	Guanine
acyl	amino acid	CH_3	O	Cytosine
acyl	amino acid	CH_3	O	Adenine
acyl	amino acid	CH_3	O	Hypoxanthine
acyl	amino acid	CH_3	O	5-Fluorouracil
acyl	amino acid	CH_3	O	8-Fluoroguanine
acyl	amino acid	CH_3	O	5-Fluorocytosine
acyl	amino acid	CH_3	O	8-Fluoroadenine
acyl	amino acid	CH_3	O	2-Fluoroadenine
acyl	amino acid	CH_3	O	2,8-Difluoroadenine
acyl	amino acid	CH_3	O	2-Fluorohypoxanthine
acyl	amino acid	CH_3	O	8-Fluorohypoxanthine
acyl	amino acid	CH_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminoadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylguanine
acyl	amino acid	CH_3	O	4-N-acetylcytosine
acyl	amino acid	CH_3	O	6-N-acetyladenine
acyl	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	O	2-N-acetylaminoadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
H	acyl	CH_3	O	Thymine
H	acyl	CH_3	O	Uracil
H	acyl	CH_3	O	Guanine
H	acyl	CH_3	O	Cytosine
H	acyl	CH_3	O	Adenine
H	acyl	CH_3	O	Hypoxanthine
H	acyl	CH_3	O	5-Fluorouracil
H	acyl	CH_3	O	8-Fluoroguanine
H	acyl	CH_3	O	5-Fluorocytosine
H	acyl	CH_3	O	8-Fluoroadenine
H	acyl	CH_3	O	2-Fluoroadenine
H	acyl	CH_3	O	2,8-Difluoroadenine
H	acyl	CH_3	O	2-Fluorohypoxanthine
H	acyl	CH_3	O	8-Fluorohypoxanthine
H	acyl	CH_3	O	2,8-Difluorohypoxanthine
H	acyl	CH_3	O	2-Aminoadenine
H	acyl	CH_3	O	2-Amino-8-fluoroadenine
H	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-Aminohypoxanthine
H	acyl	CH_3	O	2-N-acetylguanine
H	acyl	CH_3	O	4-N-acetylcytosine
H	acyl	CH_3	O	6-N-acetyladenine
H	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylaminoadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	O	Thymine
H	amino acid	CH_3	O	Uracil
H	amino acid	CH_3	O	Guanine
H	amino acid	CH_3	O	Cytosine
H	amino acid	CH_3	O	Adenine
H	amino acid	CH_3	O	Hypoxanthine
H	amino acid	CH_3	O	5-Fluorouracil
H	amino acid	CH_3	O	8-Fluoroguanine
H	amino acid	CH_3	O	5-Fluorocytosine
H	amino acid	CH_3	O	8-Fluoroadenine
H	amino acid	CH_3	O	2-Fluoroadenine

R^2	R^3	R^6	X	Base
H	amino acid	CH_3	O	2,8-Difluoroadenine
H	amino acid	CH_3	O	2-Fluorohypoxanthine
H	amino acid	CH_3	O	8-Fluorohypoxanthine
H	amino acid	CH_3	O	2,8-Difluorohypoxanthine
H	amino acid	CH_3	O	2-Aminoadenine
H	amino acid	CH_3	O	2-Amino-8-fluoroadenine
H	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-Aminohypoxanthine
H	amino acid	CH_3	O	2-N-acetylguanine
H	amino acid	CH_3	O	4-N-acetylcytosine
H	amino acid	CH_3	O	6-N-acetyladenine
H	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylaminoadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	O	Thymine
amino acid	amino acid	CH_3	O	Uracil
amino acid	amino acid	CH_3	O	Guanine
amino acid	amino acid	CH_3	O	Cytosine
amino acid	amino acid	CH_3	O	Adenine
amino acid	amino acid	CH_3	O	Hypoxanthine
amino acid	amino acid	CH_3	O	5-Fluorouracil
amino acid	amino acid	CH_3	O	8-Fluoroguanine
amino acid	amino acid	CH_3	O	5-Fluorocytosine
amino acid	amino acid	CH_3	O	8-Fluoroadenine
amino acid	amino acid	CH_3	O	2-Fluoroadenine
amino acid	amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminoadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylguanine
amino acid	amino acid	CH_3	O	4-N-acetylcytosine
amino acid	amino acid	CH_3	O	6-N-acetyladenine
amino acid	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	O	Thymine
amino acid	H	CH_3	O	Uracil
amino acid	H	CH_3	O	Guanine
amino acid	H	CH_3	O	Cytosine
amino acid	H	CH_3	O	Adenine
amino acid	H	CH_3	O	Hypoxanthine
amino acid	H	CH_3	O	5-Fluorouracil
amino acid	H	CH_3	O	8-Fluoroguanine
amino acid	H	CH_3	O	5-Fluorocytosine
amino acid	H	CH_3	O	8-Fluoroadenine
amino acid	H	CH_3	O	2-Fluoroadenine
amino acid	H	CH_3	O	2,8-Difluoroadenine
amino acid	H	CH_3	O	2-Fluorohypoxanthine
amino acid	H	CH_3	O	8-Fluorohypoxanthine
amino acid	H	CH_3	O	2,8-Difluorohypoxanthine
amino acid	H	CH_3	O	2-Aminoadenine
amino acid	H	CH_3	O	2-Amino-8-fluoroadenine
amino acid	H	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-Aminohypoxanthine
amino acid	H	CH_3	O	2-N-acetylguanine
amino acid	H	CH_3	O	4-N-acetylcytosine
amino acid	H	CH_3	O	6-N-acetyladenine
amino acid	H	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylaminoadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	O	Thymine
amino acid	acyl	CH_3	O	Uracil
amino acid	acyl	CH_3	O	Guanine
amino acid	acyl	CH_3	O	Cytosine
amino acid	acyl	CH_3	O	Adenine
amino acid	acyl	CH_3	O	Hypoxanthine
amino acid	acyl	CH_3	O	5-Fluorouracil
amino acid	acyl	CH_3	O	8-Fluoroguanine
amino acid	acyl	CH_3	O	5-Fluorocytosine

R^2	R^3	R^6	X	Base
amino acid	acyl	CH_3	O	8-Fluoroadenine
amino acid	acyl	CH_3	O	2-Fluoroadenine
amino acid	acyl	CH_3	O	2,8-Difluoroadenine
amino acid	acyl	CH_3	O	2-Fluorohypoxanthine
amino acid	acyl	CH_3	O	8-Fluorohypoxanthine
amino acid	acyl	CH_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminoadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylguanine
amino acid	acyl	CH_3	O	4-N-acetylcytosine
amino acid	acyl	CH_3	O	6-N-acetyladenine
amino acid	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylaminoadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	H	CH_3	S	Thymine
acyl	H	CH_3	S	Uracil
acyl	H	CH_3	S	Guanine
acyl	H	CH_3	S	Cytosine
acyl	H	CH_3	S	Adenine
acyl	H	CH_3	S	Hypoxanthine
acyl	H	CH_3	S	5-Fluorouracil
acyl	H	CH_3	S	8-Fluoroguanine
acyl	H	CH_3	S	5-Fluorocytosine
acyl	H	CH_3	S	8-Fluoroadenine
acyl	H	CH_3	S	2-Fluoroadenine
acyl	H	CH_3	S	2,8-Difluoroadenine
acyl	H	CH_3	S	2-Fluorohypoxanthine
acyl	H	CH_3	S	8-Fluorohypoxanthine
acyl	H	CH_3	S	2,8-Difluorohypoxanthine
acyl	H	CH_3	S	2-Aminoadenine
acyl	H	CH_3	S	2-Amino-8-fluoroadenine
acyl	H	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-Aminohypoxanthine
acyl	H	CH_3	S	2-N-acetylguanine
acyl	H	CH_3	S	4-N-acetylcytosine
acyl	H	CH_3	S	6-N-acetyladenine
acyl	H	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	S	4-N-acetyl-5-fluorocytosine

R^2	R^3	R^6	X	Base
acyl	H	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylaminoadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	S	Thymine
acyl	acyl	CH_3	S	Uracil
acyl	acyl	CH_3	S	Guanine
acyl	acyl	CH_3	S	Cytosine
acyl	acyl	CH_3	S	Adenine
acyl	acyl	CH_3	S	Hypoxanthine
acyl	acyl	CH_3	S	5-Fluorouracil
acyl	acyl	CH_3	S	8-Fluoroguanine
acyl	acyl	CH_3	S	5-Fluorocytosine
acyl	acyl	CH_3	S	8-Fluoroadenine
acyl	acyl	CH_3	S	2-Fluoroadenine
acyl	acyl	CH_3	S	2,8-Difluoroadenine
acyl	acyl	CH_3	S	2-Fluorohypoxanthine
acyl	acyl	CH_3	S	8-Fluorohypoxanthine
acyl	acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminoadenine
acyl	acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylguanine
acyl	acyl	CH_3	S	4-N-acetylcytosine
acyl	acyl	CH_3	S	6-N-acetyladenine
acyl	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylaminoadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	S	Thymine
acyl	amino acid	CH_3	S	Uracil
acyl	amino acid	CH_3	S	Guanine
acyl	amino acid	CH_3	S	Cytosine
acyl	amino acid	CH_3	S	Adenine
acyl	amino acid	CH_3	S	Hypoxanthine
acyl	amino acid	CH_3	S	5-Fluorouracil

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	S	8-Fluoroguanine
acyl	amino acid	CH_3	S	5-Fluorocytosine
acyl	amino acid	CH_3	S	8-Fluoroadenine
acyl	amino acid	CH_3	S	2-Fluoroadenine
acyl	amino acid	CH_3	S	2,8-Difluoroadenine
acyl	amino acid	CH_3	S	2-Fluorohypoxanthine
acyl	amino acid	CH_3	S	8-Fluorohypoxanthine
acyl	amino acid	CH_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminoadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylguanine
acyl	amino acid	CH_3	S	4-N-acetylcytosine
acyl	amino acid	CH_3	S	6-N-acetyladenine
acyl	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylaminoadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
H	acyl	CH_3	S	Thymine
H	acyl	CH_3	S	Uracil
H	acyl	CH_3	S	Guanine
H	acyl	CH_3	S	Cytosine
H	acyl	CH_3	S	Adenine
H	acyl	CH_3	S	Hypoxanthine
H	acyl	CH_3	S	5-Fluorouracil
H	acyl	CH_3	S	8-Fluoroguanine
H	acyl	CH_3	S	5-Fluorocytosine
H	acyl	CH_3	S	8-Fluoroadenine
H	acyl	CH_3	S	2-Fluoroadenine
H	acyl	CH_3	S	2,8-Difluoroadenine
H	acyl	CH_3	S	2-Fluorohypoxanthine
H	acyl	CH_3	S	8-Fluorohypoxanthine
H	acyl	CH_3	S	2,8-Difluorohypoxanthine
H	acyl	CH_3	S	2-Aminoadenine
H	acyl	CH_3	S	2-Amino-8-fluoroadenine
H	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-Aminohypoxanthine
H	acyl	CH_3	S	2-N-acetylguanine
H	acyl	CH_3	S	4-N-acetylcytosine
H	acyl	CH_3	S	6-N-acetyladenine

R^2	R^3	R^6	X	Base
H	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylaminoadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	S	Thymine
H	amino acid	CH_3	S	Uracil
H	amino acid	CH_3	S	Guanine
H	amino acid	CH_3	S	Cytosine
H	amino acid	CH_3	S	Adenine
H	amino acid	CH_3	S	Hypoxanthine
H	amino acid	CH_3	S	5-Fluorouracil
H	amino acid	CH_3	S	8-Fluoroguanine
H	amino acid	CH_3	S	5-Fluorocytosine
H	amino acid	CH_3	S	8-Fluoroadenine
H	amino acid	CH_3	S	2-Fluoroadenine
H	amino acid	CH_3	S	2,8-Difluoroadenine
H	amino acid	CH_3	S	2-Fluorohypoxanthine
H	amino acid	CH_3	S	8-Fluorohypoxanthine
H	amino acid	CH_3	S	2,8-Difluorohypoxanthine
H	amino acid	CH_3	S	2-Aminoadenine
H	amino acid	CH_3	S	2-Amino-8-fluoroadenine
H	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-Aminohypoxanthine
H	amino acid	CH_3	S	2-N-acetylguanine
H	amino acid	CH_3	S	4-N-acetylcytosine
H	amino acid	CH_3	S	6-N-acetyladenine
H	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylaminoadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	S	Thymine
amino acid	amino acid	CH_3	S	Uracil
amino acid	amino acid	CH_3	S	Guanine
amino acid	amino acid	CH_3	S	Cytosine
amino acid	amino acid	CH_3	S	Adenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	S	Hypoxanthine
amino acid	amino acid	CH_3	S	5-Fluorouracil
amino acid	amino acid	CH_3	S	8-Fluoroguanine
amino acid	amino acid	CH_3	S	5-Fluorocytosine
amino acid	amino acid	CH_3	S	8-Fluoroadenine
amino acid	amino acid	CH_3	S	2-Fluoroadenine
amino acid	amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminoadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylguanine
amino acid	amino acid	CH_3	S	4-N-acetylcytosine
amino acid	amino acid	CH_3	S	6-N-acetyladenine
amino acid	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	S	Thymine
amino acid	H	CH_3	S	Uracil
amino acid	H	CH_3	S	Guanine
amino acid	H	CH_3	S	Cytosine
amino acid	H	CH_3	S	Adenine
amino acid	H	CH_3	S	Hypoxanthine
amino acid	H	CH_3	S	5-Fluorouracil
amino acid	H	CH_3	S	8-Fluoroguanine
amino acid	H	CH_3	S	5-Fluorocytosine
amino acid	H	CH_3	S	8-Fluoroadenine
amino acid	H	CH_3	S	2-Fluoroadenine
amino acid	H	CH_3	S	2,8-Difluoroadenine
amino acid	H	CH_3	S	2-Fluorohypoxanthine
amino acid	H	CH_3	S	8-Fluorohypoxanthine
amino acid	H	CH_3	S	2,8-Difluorohypoxanthine
amino acid	H	CH_3	S	2-Aminoadenine
amino acid	H	CH_3	S	2-Amino-8-fluoroadenine
amino acid	H	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-Aminohypoxanthine
amino acid	H	CH_3	S	2-N-acetylguanine

R^2	R^3	R^6	X	Base
amino acid	H	CH_3	S	4-N-acetylcytosine
amino acid	H	CH_3	S	6-N-acetyladenine
amino acid	H	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylaminoadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	S	Thymine
amino acid	acyl	CH_3	S	Uracil
amino acid	acyl	CH_3	S	Guanine
amino acid	acyl	CH_3	S	Cytosine
amino acid	acyl	CH_3	S	Adenine
amino acid	acyl	CH_3	S	Hypoxanthine
amino acid	acyl	CH_3	S	5-Fluorouracil
amino acid	acyl	CH_3	S	8-Fluoroguanine
amino acid	acyl	CH_3	S	5-Fluorocytosine
amino acid	acyl	CH_3	S	8-Fluoroadenine
amino acid	acyl	CH_3	S	2-Fluoroadenine
amino acid	acyl	CH_3	S	2,8-Difluoroadenine
amino acid	acyl	CH_3	S	2-Fluorohypoxanthine
amino acid	acyl	CH_3	S	8-Fluorohypoxanthine
amino acid	acyl	CH_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminoadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylguanine
amino acid	acyl	CH_3	S	4-N-acetylcytosine
amino acid	acyl	CH_3	S	6-N-acetyladenine
amino acid	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylaminoadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	S	Thymine
acyl	H	CF_3	S	Uracil
acyl	H	CF_3	S	Guanine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	S	Cytosine
acyl	H	CF_3	S	Adenine
acyl	H	CF_3	S	Hypoxanthine
acyl	H	CF_3	S	5-Fluorouracil
acyl	H	CF_3	S	8-Fluoroguanine
acyl	H	CF_3	S	5-Fluorocytosine
acyl	H	CF_3	S	8-Fluoroadenine
acyl	H	CF_3	S	2-Fluoroadenine
acyl	H	CF_3	S	2,8-Difluoroadenine
acyl	H	CF_3	S	2-Fluorohypoxanthine
acyl	H	CF_3	S	8-Fluorohypoxanthine
acyl	H	CF_3	S	2,8-Difluorohypoxanthine
acyl	H	CF_3	S	2-Aminoadenine
acyl	H	CF_3	S	2-Amino-8-fluoroadenine
acyl	H	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-Aminohypoxanthine
acyl	H	CF_3	S	2-N-acetylguanine
acyl	H	CF_3	S	4-N-acetylcytosine
acyl	H	CF_3	S	6-N-acetyladenine
acyl	H	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylaminoadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	S	Thymine
acyl	acyl	CF_3	S	Uracil
acyl	acyl	CF_3	S	Guanine
acyl	acyl	CF_3	S	Cytosine
acyl	acyl	CF_3	S	Adenine
acyl	acyl	CF_3	S	Hypoxanthine
acyl	acyl	CF_3	S	5-Fluorouracil
acyl	acyl	CF_3	S	8-Fluoroguanine
acyl	acyl	CF_3	S	5-Fluorocytosine
acyl	acyl	CF_3	S	8-Fluoroadenine
acyl	acyl	CF_3	S	2-Fluoroadenine
acyl	acyl	CF_3	S	2,8-Difluoroadenine
acyl	acyl	CF_3	S	2-Fluorohypoxanthine
acyl	acyl	CF_3	S	8-Fluorohypoxanthine
acyl	acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	S	2-Aminoadenine
acyl	acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CF_3	S	2-Aminohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylguanine
acyl	acyl	CF_3	S	4-N-acetylcytosine
acyl	acyl	CF_3	S	6-N-acetyladenine
acyl	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylaminoadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	S	Thymine
acyl	amino acid	CF_3	S	Uracil
acyl	amino acid	CF_3	S	Guanine
acyl	amino acid	CF_3	S	Cytosine
acyl	amino acid	CF_3	S	Adenine
acyl	amino acid	CF_3	S	Hypoxanthine
acyl	amino acid	CF_3	S	5-Fluorouracil
acyl	amino acid	CF_3	S	8-Fluoroguanine
acyl	amino acid	CF_3	S	5-Fluorocytosine
acyl	amino acid	CF_3	S	8-Fluoroadenine
acyl	amino acid	CF_3	S	2-Fluoroadenine
acyl	amino acid	CF_3	S	2,8-Difluoroadenine
acyl	amino acid	CF_3	S	2-Fluorohypoxanthine
acyl	amino acid	CF_3	S	8-Fluorohypoxanthine
acyl	amino acid	CF_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminoadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylguanine
acyl	amino acid	CF_3	S	4-N-acetylcytosine
acyl	amino acid	CF_3	S	6-N-acetyladenine
acyl	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylaminoadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
H	acyl	CF_3	S	Thymine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	S	Uracil
H	acyl	CF_3	S	Guanine
H	acyl	CF_3	S	Cytosine
H	acyl	CF_3	S	Adenine
H	acyl	CF_3	S	Hypoxanthine
H	acyl	CF_3	S	5-Fluorouracil
H	acyl	CF_3	S	8-Fluoroguanine
H	acyl	CF_3	S	5-Fluorocytosine
H	acyl	CF_3	S	8-Fluoroadenine
H	acyl	CF_3	S	2-Fluoroadenine
H	acyl	CF_3	S	2,8-Difluoroadenine
H	acyl	CF_3	S	2-Fluorohypoxanthine
H	acyl	CF_3	S	8-Fluorohypoxanthine
H	acyl	CF_3	S	2,8-Difluorohypoxanthine
H	acyl	CF_3	S	2-Aminoadenine
H	acyl	CF_3	S	2-Amino-8-fluoroadenine
H	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-Aminohypoxanthine
H	acyl	CF_3	S	2-N-acetylguanine
H	acyl	CF_3	S	4-N-acetylcytosine
H	acyl	CF_3	S	6-N-acetyladenine
H	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylaminoadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	S	Thymine
H	amino acid	CF_3	S	Uracil
H	amino acid	CF_3	S	Guanine
H	amino acid	CF_3	S	Cytosine
H	amino acid	CF_3	S	Adenine
H	amino acid	CF_3	S	Hypoxanthine
H	amino acid	CF_3	S	5-Fluorouracil
H	amino acid	CF_3	S	8-Fluoroguanine
H	amino acid	CF_3	S	5-Fluorocytosine
H	amino acid	CF_3	S	8-Fluoroadenine
H	amino acid	CF_3	S	2-Fluoroadenine
H	amino acid	CF_3	S	2,8-Difluoroadenine
H	amino acid	CF_3	S	2-Fluorohypoxanthine
H	amino acid	CF_3	S	8-Fluorohypoxanthine
H	amino acid	CF_3	S	2,8-Difluorohypoxanthine
H	amino acid	CF_3	S	2-Aminoadenine

R^2	R^3	R^6	X	Base
H	amino acid	CF_3	S	2-Amino-8-fluoroadenine
H	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-Aminohypoxanthine
H	amino acid	CF_3	S	2-N-acetylguanine
H	amino acid	CF_3	S	4-N-acetylcytosine
H	amino acid	CF_3	S	6-N-acetyladenine
H	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylaminoadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	S	Thymine
amino acid	amino acid	CF_3	S	Uracil
amino acid	amino acid	CF_3	S	Guanine
amino acid	amino acid	CF_3	S	Cytosine
amino acid	amino acid	CF_3	S	Adenine
amino acid	amino acid	CF_3	S	Hypoxanthine
amino acid	amino acid	CF_3	S	5-Fluorouracil
amino acid	amino acid	CF_3	S	8-Fluoroguanine
amino acid	amino acid	CF_3	S	5-Fluorocytosine
amino acid	amino acid	CF_3	S	8-Fluoroadenine
amino acid	amino acid	CF_3	S	2-Fluoroadenine
amino acid	amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminoadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	amino acid	CF_3	S	2-N-acetylguanine
amino acid	amino acid	CF_3	S	4-N-acetylcytosine
amino acid	amino acid	CF_3	S	6-N-acetyladenine
amino acid	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	S	Thymine
amino acid	H	CF_3	S	Uracil
amino acid	H	CF_3	S	Guanine
amino acid	H	CF_3	S	Cytosine
amino acid	H	CF_3	S	Adenine
amino acid	H	CF_3	S	Hypoxanthine
amino acid	H	CF_3	S	5-Fluorouracil
amino acid	H	CF_3	S	8-Fluoroguanine
amino acid	H	CF_3	S	5-Fluorocytosine
amino acid	H	CF_3	S	8-Fluoroadenine
amino acid	H	CF_3	S	2-Fluoroadenine
amino acid	H	CF_3	S	2,8-Difluoroadenine
amino acid	H	CF_3	S	2-Fluorohypoxanthine
amino acid	H	CF_3	S	8-Fluorohypoxanthine
amino acid	H	CF_3	S	2,8-Difluorohypoxanthine
amino acid	H	CF_3	S	2-Aminoadenine
amino acid	H	CF_3	S	2-Amino-8-fluoroadenine
amino acid	H	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-Aminohypoxanthine
amino acid	H	CF_3	S	2-N-acetylguanine
amino acid	H	CF_3	S	4-N-acetylcytosine
amino acid	H	CF_3	S	6-N-acetyladenine
amino acid	H	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylaminoadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	S	Thymine
amino acid	acyl	CF_3	S	Uracil
amino acid	acyl	CF_3	S	Guanine
amino acid	acyl	CF_3	S	Cytosine
amino acid	acyl	CF_3	S	Adenine
amino acid	acyl	CF_3	S	Hypoxanthine
amino acid	acyl	CF_3	S	5-Fluorouracil
amino acid	acyl	CF_3	S	8-Fluoroguanine
amino acid	acyl	CF_3	S	5-Fluorocytosine
amino acid	acyl	CF_3	S	8-Fluoroadenine
amino acid	acyl	CF_3	S	2-Fluoroadenine
amino acid	acyl	CF_3	S	2,8-Difluoroadenine
amino acid	acyl	CF_3	S	2-Fluorohypoxanthine
amino acid	acyl	CF_3	S	8-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	acyl	CF_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminoadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylguanine
amino acid	acyl	CF_3	S	4-N-acetylcytosine
amino acid	acyl	CF_3	S	6-N-acetyladenine
amino acid	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylaminoadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	O	Thymine
acyl	H	CF_3	O	Uracil
acyl	H	CF_3	O	Guanine
acyl	H	CF_3	O	Cytosine
acyl	H	CF_3	O	Adenine
acyl	H	CF_3	O	Hypoxanthine
acyl	H	CF_3	O	5-Fluorouracil
acyl	H	CF_3	O	8-Fluoroguanine
acyl	H	CF_3	O	5-Fluorocytosine
acyl	H	CF_3	O	8-Fluoroadenine
acyl	H	CF_3	O	2-Fluoroadenine
acyl	H	CF_3	O	2,8-Difluoroadenine
acyl	H	CF_3	O	2-Fluorohypoxanthine
acyl	H	CF_3	O	8-Fluorohypoxanthine
acyl	H	CF_3	O	2,8-Difluorohypoxanthine
acyl	H	CF_3	O	2-Aminoadenine
acyl	H	CF_3	O	2-Amino-8-fluoroadenine
acyl	H	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-Aminohypoxanthine
acyl	H	CF_3	O	2-N-acetylguanine
acyl	H	CF_3	O	4-N-acetylcytosine
acyl	H	CF_3	O	6-N-acetyladenine
acyl	H	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylaminoadenine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	O	Thymine
acyl	acyl	CF_3	O	Uracil
acyl	acyl	CF_3	O	Guanine
acyl	acyl	CF_3	O	Cytosine
acyl	acyl	CF_3	O	Adenine
acyl	acyl	CF_3	O	Hypoxanthine
acyl	acyl	CF_3	O	5-Fluorouracil
acyl	acyl	CF_3	O	8-Fluoroguanine
acyl	acyl	CF_3	O	5-Fluorocytosine
acyl	acyl	CF_3	O	8-Fluoroadenine
acyl	acyl	CF_3	O	2-Fluoroadenine
acyl	acyl	CF_3	O	2,8-Difluoroadenine
acyl	acyl	CF_3	O	2-Fluorohypoxanthine
acyl	acyl	CF_3	O	8-Fluorohypoxanthine
acyl	acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminoadenine
acyl	acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylguanine
acyl	acyl	CF_3	O	4-N-acetylcytosine
acyl	acyl	CF_3	O	6-N-acetyladenine
acyl	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylaminoadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	O	Thymine
acyl	amino acid	CF_3	O	Uracil
acyl	amino acid	CF_3	O	Guanine
acyl	amino acid	CF_3	O	Cytosine
acyl	amino acid	CF_3	O	Adenine
acyl	amino acid	CF_3	O	Hypoxanthine
acyl	amino acid	CF_3	O	5-Fluorouracil
acyl	amino acid	CF_3	O	8-Fluoroguanine
acyl	amino acid	CF_3	O	5-Fluorocytosine
acyl	amino acid	CF_3	O	8-Fluoroadenine
acyl	amino acid	CF_3	O	2-Fluoroadenine
acyl	amino acid	CF_3	O	2,8-Difluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CF_3	O	2-Fluorohypoxanthine
acyl	amino acid	CF_3	O	8-Fluorohypoxanthine
acyl	amino acid	CF_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminoadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylguanine
acyl	amino acid	CF_3	O	4-N-acetylcytosine
acyl	amino acid	CF_3	O	6-N-acetyladenine
acyl	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylaminoadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
H	acyl	CF_3	O	Thymine
H	acyl	CF_3	O	Uracil
H	acyl	CF_3	O	Guanine
H	acyl	CF_3	O	Cytosine
H	acyl	CF_3	O	Adenine
H	acyl	CF_3	O	Hypoxanthine
H	acyl	CF_3	O	5-Fluorouracil
H	acyl	CF_3	O	8-Fluoroguanine
H	acyl	CF_3	O	5-Fluorocytosine
H	acyl	CF_3	O	8-Fluoroadenine
H	acyl	CF_3	O	2-Fluoroadenine
H	acyl	CF_3	O	2,8-Difluoroadenine
H	acyl	CF_3	O	2-Fluorohypoxanthine
H	acyl	CF_3	O	8-Fluorohypoxanthine
H	acyl	CF_3	O	2,8-Difluorohypoxanthine
H	acyl	CF_3	O	2-Aminoadenine
H	acyl	CF_3	O	2-Amino-8-fluoroadenine
H	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-Aminohypoxanthine
H	acyl	CF_3	O	2-N-acetylguanine
H	acyl	CF_3	O	4-N-acetylcytosine
H	acyl	CF_3	O	6-N-acetyladenine
H	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2-aminoadenine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylaminoadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	O	Thymine
H	amino acid	CF_3	O	Uracil
H	amino acid	CF_3	O	Guanine
H	amino acid	CF_3	O	Cytosine
H	amino acid	CF_3	O	Adenine
H	amino acid	CF_3	O	Hypoxanthine
H	amino acid	CF_3	O	5-Fluorouracil
H	amino acid	CF_3	O	8-Fluoroguanine
H	amino acid	CF_3	O	5-Fluorocytosine
H	amino acid	CF_3	O	8-Fluoroadenine
H	amino acid	CF_3	O	2-Fluoroadenine
H	amino acid	CF_3	O	2,8-Difluoroadenine
H	amino acid	CF_3	O	2-Fluorohypoxanthine
H	amino acid	CF_3	O	8-Fluorohypoxanthine
H	amino acid	CF_3	O	2,8-Difluorohypoxanthine
H	amino acid	CF_3	O	2-Aminoadenine
H	amino acid	CF_3	O	2-Amino-8-fluoroadenine
H	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-Aminohypoxanthine
H	amino acid	CF_3	O	2-N-acetylguanine
H	amino acid	CF_3	O	4-N-acetylcytosine
H	amino acid	CF_3	O	6-N-acetyladenine
H	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylaminoadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	O	Thymine
amino acid	amino acid	CF_3	O	Uracil
amino acid	amino acid	CF_3	O	Guanine
amino acid	amino acid	CF_3	O	Cytosine
amino acid	amino acid	CF_3	O	Adenine
amino acid	amino acid	CF_3	O	Hypoxanthine
amino acid	amino acid	CF_3	O	5-Fluorouracil
amino acid	amino acid	CF_3	O	8-Fluoroguanine
amino acid	amino acid	CF_3	O	5-Fluorocytosine
amino acid	amino acid	CF_3	O	8-Fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	O	2-Fluoroadenine
amino acid	amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminoadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylguanine
amino acid	amino acid	CF_3	O	4-N-acetylcytosine
amino acid	amino acid	CF_3	O	6-N-acetyladenine
amino acid	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	O	Thymine
amino acid	H	CF_3	O	Uracil
amino acid	H	CF_3	O	Guanine
amino acid	H	CF_3	O	Cytosine
amino acid	H	CF_3	O	Adenine
amino acid	H	CF_3	O	Hypoxanthine
amino acid	H	CF_3	O	5-Fluorouracil
amino acid	H	CF_3	O	8-Fluoroguanine
amino acid	H	CF_3	O	5-Fluorocytosine
amino acid	H	CF_3	O	8-Fluoroadenine
amino acid	H	CF_3	O	2-Fluoroadenine
amino acid	H	CF_3	O	2,8-Difluoroadenine
amino acid	H	CF_3	O	2-Fluorohypoxanthine
amino acid	H	CF_3	O	8-Fluorohypoxanthine
amino acid	H	CF_3	O	2,8-Difluorohypoxanthine
amino acid	H	CF_3	O	2-Aminoadenine
amino acid	H	CF_3	O	2-Amino-8-fluoroadenine
amino acid	H	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-Aminohypoxanthine
amino acid	H	CF_3	O	2-N-acetylguanine
amino acid	H	CF_3	O	4-N-acetylcytosine
amino acid	H	CF_3	O	6-N-acetyladenine
amino acid	H	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	O	6-N-acetyl-2-fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylaminoadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	O	Thymine
amino acid	acyl	CF_3	O	Uracil
amino acid	acyl	CF_3	O	Guanine
amino acid	acyl	CF_3	O	Cytosine
amino acid	acyl	CF_3	O	Adenine
amino acid	acyl	CF_3	O	Hypoxanthine
amino acid	acyl	CF_3	O	5-Fluorouracil
amino acid	acyl	CF_3	O	8-Fluoroguanine
amino acid	acyl	CF_3	O	5-Fluorocytosine
amino acid	acyl	CF_3	O	8-Fluoroadenine
amino acid	acyl	CF_3	O	2-Fluoroadenine
amino acid	acyl	CF_3	O	2,8-Difluoroadenine
amino acid	acyl	CF_3	O	2-Fluorohypoxanthine
amino acid	acyl	CF_3	O	8-Fluorohypoxanthine
amino acid	acyl	CF_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminoadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylguanine
amino acid	acyl	CF_3	O	4-N-acetylcytosine
amino acid	acyl	CF_3	O	6-N-acetyladenine
amino acid	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylaminoadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylaminohypoxanthine

Table 10

R^2	R^7	R^6	X	Base
acyl	H	CH_3	O	Thymine
acyl	H	CH_3	O	Uracil
acyl	H	CH_3	O	Guanine
acyl	H	CH_3	O	Cytosine
acyl	H	CH_3	O	Adenine
acyl	H	CH_3	O	Hypoxanthine
acyl	H	CH_3	O	5-Fluorouracil
acyl	H	CH_3	O	8-Fluoroguanine
acyl	H	CH_3	O	5-Fluorocytosine
acyl	H	CH_3	O	8-Fluoroadenine
acyl	H	CH_3	O	2-Fluoroadenine
acyl	H	CH_3	O	2,8-Difluoroadenine
acyl	H	CH_3	O	2-Fluorohypoxanthine
acyl	H	CH_3	O	8-Fluorohypoxanthine
acyl	H	CH_3	O	2,8-Difluorohypoxanthine
acyl	H	CH_3	O	2-Aminoadenine
acyl	H	CH_3	O	2-Amino-8-fluoroadenine
acyl	H	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-Aminohypoxanthine
acyl	H	CH_3	O	2-N-acetylguanine
acyl	H	CH_3	O	4-N-acetylcytosine
acyl	H	CH_3	O	6-N-acetyladenine
acyl	H	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylaminoadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-N-acetylaminohypoxanthine
acyl	F	CH_3	O	Thymine
acyl	F	CH_3	O	Uracil
acyl	F	CH_3	O	Guanine
acyl	F	CH_3	O	Cytosine
acyl	F	CH_3	O	Adenine
acyl	F	CH_3	O	Hypoxanthine
acyl	F	CH_3	O	5-Fluorouracil
acyl	F	CH_3	O	8-Fluoroguanine
acyl	F	CH_3	O	5-Fluorocytosine
acyl	F	CH_3	O	8-Fluoroadenine
acyl	F	CH_3	O	2-Fluoroadenine
acyl	F	CH_3	O	2,8-Difluoroadenine
acyl	F	CH_3	O	2-Fluorohypoxanthine

R^2	R^7	R^6	X	Base
acyl	F	CH_3	O	8-Fluorohypoxanthine
acyl	F	CH_3	O	2,8-Difluorohypoxanthine
acyl	F	CH_3	O	2-Aminoadenine
acyl	F	CH_3	O	2-Amino-8-fluoroadenine
acyl	F	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	F	CH_3	O	2-Aminohypoxanthine
acyl	F	CH_3	O	2-N-acetylguanine
acyl	F	CH_3	O	4-N-acetylcytosine
acyl	F	CH_3	O	6-N-acetyladenine
acyl	F	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	F	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	F	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	F	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	F	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	F	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	F	CH_3	O	2-N-acetylaminoadenine
acyl	F	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	F	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	F	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	O	Thymine
amino acid	H	CH_3	O	Uracil
amino acid	H	CH_3	O	Guanine
amino acid	H	CH_3	O	Cytosine
amino acid	H	CH_3	O	Adenine
amino acid	H	CH_3	O	Hypoxanthine
amino acid	H	CH_3	O	5-Fluorouracil
amino acid	H	CH_3	O	8-Fluoroguanine
amino acid	H	CH_3	O	5-Fluorocytosine
amino acid	H	CH_3	O	8-Fluoroadenine
amino acid	H	CH_3	O	2-Fluoroadenine
amino acid	H	CH_3	O	2,8-Difluoroadenine
amino acid	H	CH_3	O	2-Fluorohypoxanthine
amino acid	H	CH_3	O	8-Fluorohypoxanthine
amino acid	H	CH_3	O	2,8-Difluorohypoxanthine
amino acid	H	CH_3	O	2-Aminoadenine
amino acid	H	CH_3	O	2-Amino-8-fluoroadenine
amino acid	H	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-Aminohypoxanthine
amino acid	H	CH_3	O	2-N-acetylguanine
amino acid	H	CH_3	O	4-N-acetylcytosine
amino acid	H	CH_3	O	6-N-acetyladenine
amino acid	H	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^7	R^6	X	Base
amino acid	H	CH_3	O	2-N-acetylaminoadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	F	CH_3	O	Thymine
amino acid	F	CH_3	O	Uracil
amino acid	F	CH_3	O	Guanine
amino acid	F	CH_3	O	Cytosine
amino acid	F	CH_3	O	Adenine
amino acid	F	CH_3	O	Hypoxanthine
amino acid	F	CH_3	O	5-Fluorouracil
amino acid	F	CH_3	O	8-Fluoroguanine
amino acid	F	CH_3	O	5-Fluorocytosine
amino acid	F	CH_3	O	8-Fluoroadenine
amino acid	F	CH_3	O	2-Fluoroadenine
amino acid	F	CH_3	O	2,8-Difluoroadenine
amino acid	F	CH_3	O	2-Fluorohypoxanthine
amino acid	F	CH_3	O	8-Fluorohypoxanthine
amino acid	F	CH_3	O	2,8-Difluorohypoxanthine
amino acid	F	CH_3	O	2-Aminoadenine
amino acid	F	CH_3	O	2-Amino-8-fluoroadenine
amino acid	F	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	F	CH_3	O	2-Aminohypoxanthine
amino acid	F	CH_3	O	2-N-acetylguanine
amino acid	F	CH_3	O	4-N-acetylcytosine
amino acid	F	CH_3	O	6-N-acetyladenine
amino acid	F	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	F	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	F	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	F	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	F	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	F	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	F	CH_3	O	2-N-acetylaminoadenine
amino acid	F	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	F	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	F	CH_3	O	2-N-acetylaminohypoxanthine
acyl	H	CH_3	S	Thymine
acyl	H	CH_3	S	Uracil
acyl	H	CH_3	S	Guanine
acyl	H	CH_3	S	Cytosine
acyl	H	CH_3	S	Adenine
acyl	H	CH_3	S	Hypoxanthine
acyl	H	CH_3	S	5-Fluorouracil
acyl	H	CH_3	S	8-Fluoroguanine
acyl	H	CH_3	S	5-Fluorocytosine
acyl	H	CH_3	S	8-Fluoroadenine
acyl	H	CH_3	S	2-Fluoroadenine

R^2	R^7	R^6	X	Base
acyl	H	CH_3	S	2,8-Difluoroadenine
acyl	H	CH_3	S	2-Fluorohypoxanthine
acyl	H	CH_3	S	8-Fluorohypoxanthine
acyl	H	CH_3	S	2,8-Difluorohypoxanthine
acyl	H	CH_3	S	2-Aminoadenine
acyl	H	CH_3	S	2-Amino-8-fluoroadenine
acyl	H	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-Aminohypoxanthine
acyl	H	CH_3	S	2-N-acetylguanine
acyl	H	CH_3	S	4-N-acetylcytosine
acyl	H	CH_3	S	6-N-acetyladenine
acyl	H	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	H	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylaminoadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-N-acetylaminohypoxanthine
acyl	F	CH_3	S	Thymine
acyl	F	CH_3	S	Uracil
acyl	F	CH_3	S	Guanine
acyl	F	CH_3	S	Cytosine
acyl	F	CH_3	S	Adenine
acyl	F	CH_3	S	Hypoxanthine
acyl	F	CH_3	S	5-Fluorouracil
acyl	F	CH_3	S	8-Fluoroguanine
acyl	F	CH_3	S	5-Fluorocytosine
acyl	F	CH_3	S	8-Fluoroadenine
acyl	F	CH_3	S	2-Fluoroadenine
acyl	F	CH_3	S	2,8-Difluoroadenine
acyl	F	CH_3	S	2-Fluorohypoxanthine
acyl	F	CH_3	S	8-Fluorohypoxanthine
acyl	F	CH_3	S	2,8-Difluorohypoxanthine
acyl	F	CH_3	S	2-Aminoadenine
acyl	F	CH_3	S	2-Amino-8-fluoroadenine
acyl	F	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	F	CH_3	S	2-Aminohypoxanthine
acyl	F	CH_3	S	2-N-acetylguanine
acyl	F	CH_3	S	4-N-acetylcytosine
acyl	F	CH_3	S	6-N-acetyladenine
acyl	F	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	F	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	F	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	F	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^7	R^6	X	Base
acyl	F	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	F	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	F	CH_3	S	2-N-acetylaminoadenine
acyl	F	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	F	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	F	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	F	CH_3	S	Thymine
amino acid	F	CH_3	S	Uracil
amino acid	F	CH_3	S	Guanine
amino acid	F	CH_3	S	Cytosine
amino acid	F	CH_3	S	Adenine
amino acid	F	CH_3	S	Hypoxanthine
amino acid	F	CH_3	S	5-Fluorouracil
amino acid	F	CH_3	S	8-Fluoroguanine
amino acid	F	CH_3	S	5-Fluorocytosine
amino acid	F	CH_3	S	8-Fluoroadenine
amino acid	F	CH_3	S	2-Fluoroadenine
amino acid	F	CH_3	S	2,8-Difluoroadenine
amino acid	F	CH_3	S	2-Fluorohypoxanthine
amino acid	F	CH_3	S	8-Fluorohypoxanthine
amino acid	F	CH_3	S	2,8-Difluorohypoxanthine
amino acid	F	CH_3	S	2-Aminoadenine
amino acid	F	CH_3	S	2-Amino-8-fluoroadenine
amino acid	F	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	F	CH_3	S	2-Aminohypoxanthine
amino acid	F	CH_3	S	2-N-acetylguanine
amino acid	F	CH_3	S	4-N-acetylcytosine
amino acid	F	CH_3	S	6-N-acetyladenine
amino acid	F	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	F	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	F	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	F	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	F	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	F	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	F	CH_3	S	2-N-acetylaminoadenine
amino acid	F	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	F	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	F	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	S	Thymine
amino acid	H	CH_3	S	Uracil
amino acid	H	CH_3	S	Guanine
amino acid	H	CH_3	S	Cytosine
amino acid	H	CH_3	S	Adenine
amino acid	H	CH_3	S	Hypoxanthine
amino acid	H	CH_3	S	5-Fluorouracil
amino acid	H	CH_3	S	8-Fluoroguanine
amino acid	H	CH_3	S	5-Fluorocytosine

R^2	R^7	R^6	X	Base
amino acid	H	CH_3	S	8-Fluoroadenine
amino acid	H	CH_3	S	2-Fluoroadenine
amino acid	H	CH_3	S	2,8-Difluoroadenine
amino acid	H	CH_3	S	2-Fluorohypoxanthine
amino acid	H	CH_3	S	8-Fluorohypoxanthine
amino acid	H	CH_3	S	2,8-Difluorohypoxanthine
amino acid	H	CH_3	S	2-Aminoadenine
amino acid	H	CH_3	S	2-Amino-8-fluoroadenine
amino acid	H	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-Aminohypoxanthine
amino acid	H	CH_3	S	2-N-acetylguanine
amino acid	H	CH_3	S	4-N-acetylcytosine
amino acid	H	CH_3	S	6-N-acetyladenine
amino acid	H	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylaminoadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	S	Thymine
acyl	H	CF_3	S	Uracil
acyl	H	CF_3	S	Guanine
acyl	H	CF_3	S	Cytosine
acyl	H	CF_3	S	Adenine
acyl	H	CF_3	S	Hypoxanthine
acyl	H	CF_3	S	5-Fluorouracil
acyl	H	CF_3	S	8-Fluoroguanine
acyl	H	CF_3	S	5-Fluorocytosine
acyl	H	CF_3	S	8-Fluoroadenine
acyl	H	CF_3	S	2-Fluoroadenine
acyl	H	CF_3	S	2,8-Difluoroadenine
acyl	H	CF_3	S	2-Fluorohypoxanthine
acyl	H	CF_3	S	8-Fluorohypoxanthine
acyl	H	CF_3	S	2,8-Difluorohypoxanthine
acyl	H	CF_3	S	2-Aminoadenine
acyl	H	CF_3	S	2-Amino-8-fluoroadenine
acyl	H	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-Aminohypoxanthine
acyl	H	CF_3	S	2-N-acetylguanine
acyl	H	CF_3	S	4-N-acetylcytosine
acyl	H	CF_3	S	6-N-acetyladenine
acyl	H	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	S	4-N-acetyl-5-fluorocytosine

R^2	R^7	R^6	X	Base
acyl	H	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylaminoadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-N-acetylaminohypoxanthine
acyl	F	CF_3	S	Thymine
acyl	F	CF_3	S	Uracil
acyl	F	CF_3	S	Guanine
acyl	F	CF_3	S	Cytosine
acyl	F	CF_3	S	Adenine
acyl	F	CF_3	S	Hypoxanthine
acyl	F	CF_3	S	5-Fluorouracil
acyl	F	CF_3	S	8-Fluoroguanine
acyl	F	CF_3	S	5-Fluorocytosine
acyl	F	CF_3	S	8-Fluoroadenine
acyl	F	CF_3	S	2-Fluoroadenine
acyl	F	CF_3	S	2,8-Difluoroadenine
acyl	F	CF_3	S	2-Fluorohypoxanthine
acyl	F	CF_3	S	8-Fluorohypoxanthine
acyl	F	CF_3	S	2,8-Difluorohypoxanthine
acyl	F	CF_3	S	2-Aminoadenine
acyl	F	CF_3	S	2-Amino-8-fluoroadenine
acyl	F	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	F	CF_3	S	2-Aminohypoxanthine
acyl	F	CF_3	S	2-N-acetylguanine
acyl	F	CF_3	S	4-N-acetylcytosine
acyl	F	CF_3	S	6-N-acetyladenine
acyl	F	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	F	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	F	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	F	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	F	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	F	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	F	CF_3	S	2-N-acetylaminoadenine
acyl	F	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	F	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	F	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	S	Thymine
amino acid	H	CF_3	S	Uracil
amino acid	H	CF_3	S	Guanine
amino acid	H	CF_3	S	Cytosine
amino acid	H	CF_3	S	Adenine
amino acid	H	CF_3	S	Hypoxanthine
amino acid	H	CF_3	S	5-Fluorouracil

R^2	R^7	R^6	X	Base
amino acid	H	CF_3	S	8-Fluoroguanine
amino acid	H	CF_3	S	5-Fluorocytosine
amino acid	H	CF_3	S	8-Fluoroadenine
amino acid	H	CF_3	S	2-Fluoroadenine
amino acid	H	CF_3	S	2,8-Difluoroadenine
amino acid	H	CF_3	S	2-Fluorohypoxanthine
amino acid	H	CF_3	S	8-Fluorohypoxanthine
amino acid	H	CF_3	S	2,8-Difluorohypoxanthine
amino acid	H	CF_3	S	2-Aminoadenine
amino acid	H	CF_3	S	2-Amino-8-fluoroadenine
amino acid	H	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-Aminohypoxanthine
amino acid	H	CF_3	S	2-N-acetylguanine
amino acid	H	CF_3	S	4-N-acetylcytosine
amino acid	H	CF_3	S	6-N-acetyladenine
amino acid	H	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylaminoadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	F	CF_3	S	Thymine
amino acid	F	CF_3	S	Uracil
amino acid	F	CF_3	S	Guanine
amino acid	F	CF_3	S	Cytosine
amino acid	F	CF_3	S	Adenine
amino acid	F	CF_3	S	Hypoxanthine
amino acid	F	CF_3	S	5-Fluorouracil
amino acid	F	CF_3	S	8-Fluoroguanine
amino acid	F	CF_3	S	5-Fluorocytosine
amino acid	F	CF_3	S	8-Fluoroadenine
amino acid	F	CF_3	S	2-Fluoroadenine
amino acid	F	CF_3	S	2,8-Difluoroadenine
amino acid	F	CF_3	S	2-Fluorohypoxanthine
amino acid	F	CF_3	S	8-Fluorohypoxanthine
amino acid	F	CF_3	S	2,8-Difluorohypoxanthine
amino acid	F	CF_3	S	2-Aminoadenine
amino acid	F	CF_3	S	2-Amino-8-fluoroadenine
amino acid	F	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	F	CF_3	S	2-Aminohypoxanthine
amino acid	F	CF_3	S	2-N-acetylguanine
amino acid	F	CF_3	S	4-N-acetylcytosine
amino acid	F	CF_3	S	6-N-acetyladenine

R^2	R^7	R^6	X	Base
amino acid	F	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	F	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	F	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	F	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	F	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	F	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	F	CF_3	S	2-N-acetylaminoadenine
amino acid	F	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	F	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	F	CF_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	O	Thymine
acyl	H	CF_3	O	Uracil
acyl	H	CF_3	O	Guanine
acyl	H	CF_3	O	Cytosine
acyl	H	CF_3	O	Adenine
acyl	H	CF_3	O	Hypoxanthine
acyl	H	CF_3	O	5-Fluorouracil
acyl	H	CF_3	O	8-Fluoroguanine
acyl	H	CF_3	O	5-Fluorocytosine
acyl	H	CF_3	O	8-Fluoroadenine
acyl	H	CF_3	O	2-Fluoroadenine
acyl	H	CF_3	O	2,8-Difluoroadenine
acyl	H	CF_3	O	2-Fluorohypoxanthine
acyl	H	CF_3	O	8-Fluorohypoxanthine
acyl	H	CF_3	O	2,8-Difluorohypoxanthine
acyl	H	CF_3	O	2-Aminoadenine
acyl	H	CF_3	O	2-Amino-8-fluoroadenine
acyl	H	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-Aminohypoxanthine
acyl	H	CF_3	O	2-N-acetylguanine
acyl	H	CF_3	O	4-N-acetylcytosine
acyl	H	CF_3	O	6-N-acetyladenine
acyl	H	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylaminoadenine
acyl	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-N-acetylaminohypoxanthine
acyl	F	CF_3	O	Thymine
acyl	F	CF_3	O	Uracil
acyl	F	CF_3	O	Guanine
acyl	F	CF_3	O	Cytosine
acyl	F	CF_3	O	Adenine

R^2	R^7	R^6	X	Base
acyl	F	CF_3	O	Hypoxanthine
acyl	F	CF_3	O	5-Fluorouracil
acyl	F	CF_3	O	8-Fluoroguanine
acyl	F	CF_3	O	5-Fluorocytosine
acyl	F	CF_3	O	8-Fluoroadenine
acyl	F	CF_3	O	2-Fluoroadenine
acyl	F	CF_3	O	2,8-Difluoroadenine
acyl	F	CF_3	O	2-Fluorohypoxanthine
acyl	F	CF_3	O	8-Fluorohypoxanthine
acyl	F	CF_3	O	2,8-Difluorohypoxanthine
acyl	F	CF_3	O	2-Aminoadenine
acyl	F	CF_3	O	2-Amino-8-fluoroadenine
acyl	F	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	F	CF_3	O	2-Aminohypoxanthine
acyl	F	CF_3	O	2-N-acetylguanine
acyl	F	CF_3	O	4-N-acetylcytosine
acyl	F	CF_3	O	6-N-acetyladenine
acyl	F	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	F	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	F	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	F	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	F	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	F	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	F	CF_3	O	2-N-acetylaminoadenine
acyl	F	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	F	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	F	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	F	CF_3	O	Thymine
amino acid	F	CF_3	O	Uracil
amino acid	F	CF_3	O	Guanine
amino acid	F	CF_3	O	Cytosine
amino acid	F	CF_3	O	Adenine
amino acid	F	CF_3	O	Hypoxanthine
amino acid	F	CF_3	O	5-Fluorouracil
amino acid	F	CF_3	O	8-Fluoroguanine
amino acid	F	CF_3	O	5-Fluorocytosine
amino acid	F	CF_3	O	8-Fluoroadenine
amino acid	F	CF_3	O	2-Fluoroadenine
amino acid	F	CF_3	O	2,8-Difluoroadenine
amino acid	F	CF_3	O	2-Fluorohypoxanthine
amino acid	F	CF_3	O	8-Fluorohypoxanthine
amino acid	F	CF_3	O	2,8-Difluorohypoxanthine
amino acid	F	CF_3	O	2-Aminoadenine
amino acid	F	CF_3	O	2-Amino-8-fluoroadenine
amino acid	F	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	F	CF_3	O	2-Aminohypoxanthine
amino acid	F	CF_3	O	2-N-acetylguanine

R^2	R^7	R^6	X	Base
amino acid	F	CF_3	O	4-N-acetylcytosine
amino acid	F	CF_3	O	6-N-acetyladenine
amino acid	F	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	F	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	F	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	F	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	F	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	F	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	F	CF_3	O	2-N-acetylaminoadenine
amino acid	F	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	F	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	F	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	O	Thymine
amino acid	H	CF_3	O	Uracil
amino acid	H	CF_3	O	Guanine
amino acid	H	CF_3	O	Cytosine
amino acid	H	CF_3	O	Adenine
amino acid	H	CF_3	O	Hypoxanthine
amino acid	H	CF_3	O	5-Fluorouracil
amino acid	H	CF_3	O	8-Fluoroguanine
amino acid	H	CF_3	O	5-Fluorocytosine
amino acid	H	CF_3	O	8-Fluoroadenine
amino acid	H	CF_3	O	2-Fluoroadenine
amino acid	H	CF_3	O	2,8-Difluoroadenine
amino acid	H	CF_3	O	2-Fluorohypoxanthine
amino acid	H	CF_3	O	8-Fluorohypoxanthine
amino acid	H	CF_3	O	2,8-Difluorohypoxanthine
amino acid	H	CF_3	O	2-Aminoadenine
amino acid	H	CF_3	O	2-Amino-8-fluoroadenine
amino acid	H	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-Aminohypoxanthine
amino acid	H	CF_3	O	2-N-acetylguanine
amino acid	H	CF_3	O	4-N-acetylcytosine
amino acid	H	CF_3	O	6-N-acetyladenine
amino acid	H	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylaminoadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-N-acetylaminohypoxanthine
acyl	OH	CH_3	O	Thymine
acyl	OH	CH_3	O	Uracil
acyl	OH	CH_3	O	Guanine

R^2	R^7	R^6	X	Base
acyl	OH	CH_3	O	Cytosine
acyl	OH	CH_3	O	Adenine
acyl	OH	CH_3	O	Hypoxanthine
acyl	OH	CH_3	O	5-Fluorouracil
acyl	OH	CH_3	O	8-Fluoroguanine
acyl	OH	CH_3	O	5-Fluorocytosine
acyl	OH	CH_3	O	8-Fluoroadenine
acyl	OH	CH_3	O	2-Fluoroadenine
acyl	OH	CH_3	O	2,8-Difluoroadenine
acyl	OH	CH_3	O	2-Fluorohypoxanthine
acyl	OH	CH_3	O	8-Fluorohypoxanthine
acyl	OH	CH_3	O	2,8-Difluorohypoxanthine
acyl	OH	CH_3	O	2-Aminoadenine
acyl	OH	CH_3	O	2-Amino-8-fluoroadenine
acyl	OH	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	OH	CH_3	O	2-Aminohypoxanthine
acyl	OH	CH_3	O	2-N-acetylguanine
acyl	OH	CH_3	O	4-N-acetylcytosine
acyl	OH	CH_3	O	6-N-acetyladenine
acyl	OH	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	OH	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	OH	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	OH	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	OH	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	OH	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	OH	CH_3	O	2-N-acetylaminoadenine
acyl	OH	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	OH	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	OH	CH_3	O	2-N-acetylaminohypoxanthine
acyl	OH	CH_3	S	Thymine
acyl	OH	CH_3	S	Uracil
acyl	OH	CH_3	S	Guanine
acyl	OH	CH_3	S	Cytosine
acyl	OH	CH_3	S	Adenine
acyl	OH	CH_3	S	Hypoxanthine
acyl	OH	CH_3	S	5-Fluorouracil
acyl	OH	CH_3	S	8-Fluoroguanine
acyl	OH	CH_3	S	5-Fluorocytosine
acyl	OH	CH_3	S	8-Fluoroadenine
acyl	OH	CH_3	S	2-Fluoroadenine
acyl	OH	CH_3	S	2,8-Difluoroadenine
acyl	OH	CH_3	S	2-Fluorohypoxanthine
acyl	OH	CH_3	S	8-Fluorohypoxanthine
acyl	OH	CH_3	S	2,8-Difluorohypoxanthine
acyl	OH	CH_3	S	2-Aminoadenine
acyl	OH	CH_3	S	2-Amino-8-fluoroadenine
acyl	OH	CH_3	S	2-Amino-8-fluorohypoxanthine

R^2	R^7	R^6	X	Base
acyl	OH	CH_3	S	2-Aminohypoxanthine
acyl	OH	CH_3	S	2-N-acetylguanine
acyl	OH	CH_3	S	4-N-acetylcytosine
acyl	OH	CH_3	S	6-N-acetyladenine
acyl	OH	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	OH	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	OH	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	OH	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	OH	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	OH	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	OH	CH_3	S	2-N-acetylaminoadenine
acyl	OH	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	OH	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	OH	CH_3	S	2-N-acetylaminohypoxanthine
acyl	OH	CF_3	O	Thymine
acyl	OH	CF_3	O	Uracil
acyl	OH	CF_3	O	Guanine
acyl	OH	CF_3	O	Cytosine
acyl	OH	CF_3	O	Adenine
acyl	OH	CF_3	O	Hypoxanthine
acyl	OH	CF_3	O	5-Fluorouracil
acyl	OH	CF_3	O	8-Fluoroguanine
acyl	OH	CF_3	O	5-Fluorocytosine
acyl	OH	CF_3	O	8-Fluoroadenine
acyl	OH	CF_3	O	2-Fluoroadenine
acyl	OH	CF_3	O	2,8-Difluoroadenine
acyl	OH	CF_3	O	2-Fluorohypoxanthine
acyl	OH	CF_3	O	8-Fluorohypoxanthine
acyl	OH	CF_3	O	2,8-Difluorohypoxanthine
acyl	OH	CF_3	O	2-Aminoadenine
acyl	OH	CF_3	O	2-Amino-8-fluoroadenine
acyl	OH	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	OH	CF_3	O	2-Aminohypoxanthine
acyl	OH	CF_3	O	2-N-acetylguanine
acyl	OH	CF_3	O	4-N-acetylcytosine
acyl	OH	CF_3	O	6-N-acetyladenine
acyl	OH	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	OH	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	OH	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	OH	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	OH	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	OH	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	OH	CF_3	O	2-N-acetylaminoadenine
acyl	OH	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	OH	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	OH	CF_3	O	2-N-acetylaminohypoxanthine
acyl	OH	CF_3	S	Thymine

R^2	R^7	R^6	X	Base
acyl	OH	CF_3	S	Uracil
acyl	OH	CF_3	S	Guanine
acyl	OH	CF_3	S	Cytosine
acyl	OH	CF_3	S	Adenine
acyl	OH	CF_3	S	Hypoxanthine
acyl	OH	CF_3	S	5-Fluorouracil
acyl	OH	CF_3	S	8-Fluoroguanine
acyl	OH	CF_3	S	5-Fluorocytosine
acyl	OH	CF_3	S	8-Fluoroadenine
acyl	OH	CF_3	S	2-Fluoroadenine
acyl	OH	CF_3	S	2,8-Difluoroadenine
acyl	OH	CF_3	S	2-Fluorohypoxanthine
acyl	OH	CF_3	S	8-Fluorohypoxanthine
acyl	OH	CF_3	S	2,8-Difluorohypoxanthine
acyl	OH	CF_3	S	2-Aminoadenine
acyl	OH	CF_3	S	2-Amino-8-fluoroadenine
acyl	OH	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	OH	CF_3	S	2-Aminohypoxanthine
acyl	OH	CF_3	S	2-N-acetylguanine
acyl	OH	CF_3	S	4-N-acetylcytosine
acyl	OH	CF_3	S	6-N-acetyladenine
acyl	OH	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	OH	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	OH	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	OH	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	OH	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	OH	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	OH	CF_3	S	2-N-acetylaminoadenine
acyl	OH	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	OH	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	OH	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	OH	CH_3	O	Thymine
amino acid	OH	CH_3	O	Uracil
amino acid	OH	CH_3	O	Guanine
amino acid	OH	CH_3	O	Cytosine
amino acid	OH	CH_3	O	Adenine
amino acid	OH	CH_3	O	Hypoxanthine
amino acid	OH	CH_3	O	5-Fluorouracil
amino acid	OH	CH_3	O	8-Fluoroguanine
amino acid	OH	CH_3	O	5-Fluorocytosine
amino acid	OH	CH_3	O	8-Fluoroadenine
amino acid	OH	CH_3	O	2-Fluoroadenine
amino acid	OH	CH_3	O	2,8-Difluoroadenine
amino acid	OH	CH_3	O	2-Fluorohypoxanthine
amino acid	OH	CH_3	O	8-Fluorohypoxanthine
amino acid	OH	CH_3	O	2,8-Difluorohypoxanthine
amino acid	OH	CH_3	O	2-Aminoadenine

R^2	R^7	R^6	X	Base
amino acid	OH	CH_3	O	2-Amino-8-fluoroadenine
amino acid	OH	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	OH	CH_3	O	2-Aminohypoxanthine
amino acid	OH	CH_3	O	2-N-acetylguanine
amino acid	OH	CH_3	O	4-N-acetylcytosine
amino acid	OH	CH_3	O	6-N-acetyladenine
amino acid	OH	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	OH	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	OH	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	OH	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	OH	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	OH	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	OH	CH_3	O	2-N-acetylaminoadenine
amino acid	OH	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	OH	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	OH	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	OH	CH_3	S	Thymine
amino acid	OH	CH_3	S	Uracil
amino acid	OH	CH_3	S	Guanine
amino acid	OH	CH_3	S	Cytosine
amino acid	OH	CH_3	S	Adenine
amino acid	OH	CH_3	S	Hypoxanthine
amino acid	OH	CH_3	S	5-Fluorouracil
amino acid	OH	CH_3	S	8-Fluoroguanine
amino acid	OH	CH_3	S	5-Fluorocytosine
amino acid	OH	CH_3	S	8-Fluoroadenine
amino acid	OH	CH_3	S	2-Fluoroadenine
amino acid	OH	CH_3	S	2,8-Difluoroadenine
amino acid	OH	CH_3	S	2-Fluorohypoxanthine
amino acid	OH	CH_3	S	8-Fluorohypoxanthine
amino acid	OH	CH_3	S	2,8-Difluorohypoxanthine
amino acid	OH	CH_3	S	2-Aminoadenine
amino acid	OH	CH_3	S	2-Amino-8-fluoroadenine
amino acid	OH	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	OH	CH_3	S	2-Aminohypoxanthine
amino acid	OH	CH_3	S	2-N-acetylguanine
amino acid	OH	CH_3	S	4-N-acetylcytosine
amino acid	OH	CH_3	S	6-N-acetyladenine
amino acid	OH	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	OH	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	OH	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	OH	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	OH	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	OH	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	OH	CH_3	S	2-N-acetylaminoadenine
amino acid	OH	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	OH	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine

R^2	R^7	R^6	X	Base
amino acid	OH	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	OH	CF_3	O	Thymine
amino acid	OH	CF_3	O	Uracil
amino acid	OH	CF_3	O	Guanine
amino acid	OH	CF_3	O	Cytosine
amino acid	OH	CF_3	O	Adenine
amino acid	OH	CF_3	O	Hypoxanthine
amino acid	OH	CF_3	O	5-Fluorouracil
amino acid	OH	CF_3	O	8-Fluoroguanine
amino acid	OH	CF_3	O	5-Fluorocytosine
amino acid	OH	CF_3	O	8-Fluoroadenine
amino acid	OH	CF_3	O	2-Fluoroadenine
amino acid	OH	CF_3	O	2,8-Difluoroadenine
amino acid	OH	CF_3	O	2-Fluorohypoxanthine
amino acid	OH	CF_3	O	8-Fluorohypoxanthine
amino acid	OH	CF_3	O	2,8-Difluorohypoxanthine
amino acid	OH	CF_3	O	2-Aminoadenine
amino acid	OH	CF_3	O	2-Amino-8-fluoroadenine
amino acid	OH	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	OH	CF_3	O	2-Aminohypoxanthine
amino acid	OH	CF_3	O	2-N-acetylguanine
amino acid	OH	CF_3	O	4-N-acetylcytosine
amino acid	OH	CF_3	O	6-N-acetyladenine
amino acid	OH	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	OH	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	OH	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	OH	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	OH	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	OH	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	OH	CF_3	O	2-N-acetylaminoadenine
amino acid	OH	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	OH	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	OH	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	OH	CF_3	S	Thymine
amino acid	OH	CF_3	S	Uracil
amino acid	OH	CF_3	S	Guanine
amino acid	OH	CF_3	S	Cytosine
amino acid	OH	CF_3	S	Adenine
amino acid	OH	CF_3	S	Hypoxanthine
amino acid	OH	CF_3	S	5-Fluorouracil
amino acid	OH	CF_3	S	8-Fluoroguanine
amino acid	OH	CF_3	S	5-Fluorocytosine
amino acid	OH	CF_3	S	8-Fluoroadenine
amino acid	OH	CF_3	S	2-Fluoroadenine
amino acid	OH	CF_3	S	2,8-Difluoroadenine
amino acid	OH	CF_3	S	2-Fluorohypoxanthine
amino acid	OH	CF_3	S	8-Fluorohypoxanthine

R^2	R^7	R^6	X	Base
amino acid	OH	CF_3	S	2,8-Difluorohypoxanthine
amino acid	OH	CF_3	S	2-Aminoadenine
amino acid	OH	CF_3	S	2-Amino-8-fluoroadenine
amino acid	OH	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	OH	CF_3	S	2-Aminohypoxanthine
amino acid	OH	CF_3	S	2-N-acetylguanine
amino acid	OH	CF_3	S	4-N-acetylcytosine
amino acid	OH	CF_3	S	6-N-acetyladenine
amino acid	OH	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	OH	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	OH	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	OH	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	OH	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	OH	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	OH	CF_3	S	2-N-acetylaminoadenine
amino acid	OH	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	OH	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	OH	CF_3	S	2-N-acetylaminohypoxanthine

Table 11

R^2	R^6	X	Base
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine

R^2	R^6	X	Base
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^6	X	Base
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine

R^2	R^6	X	Base
amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine

R^2	R^6	X	Base
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine

Table 12

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	Thymine	H	F
CH_3	O-acyl	O	Uracil	H	F
CH_3	O-acyl	O	Guanine	H	F
CH_3	O-acyl	O	Cytosine	H	F
CH_3	O-acyl	O	Adenine	H	F
CH_3	O-acyl	O	Hypoxanthine	H	F
CH_3	O-acyl	O	5-Fluorouracil	H	F
CH_3	O-acyl	O	8-Fluoroguanine	H	F
CH_3	O-acyl	O	5-Fluorocytosine	H	F
CH_3	O-acyl	O	8-Fluoroadenine	H	F
CH_3	O-acyl	O	2-Fluoroadenine	H	F
CH_3	O-acyl	O	2,8-Difluoroadenine	H	F
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	F
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	F
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	F
CH_3	O-acyl	O	2-Aminoadenine	H	F
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	F
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	F
CH_3	O-acyl	O	2-Aminohypoxanthine	H	F
CH_3	O-acyl	O	2-N-acetylguanine	H	F
CH_3	O-acyl	O	4-N-acetylcytosine	H	F
CH_3	O-acyl	O	6-N-acetyladenine	H	F
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	F
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	F
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	F
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	F
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	F
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	F
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	F
CH_3	O-acyl	O	Thymine	O-amino acid	F
CH_3	O-acyl	O	Uracil	O-amino acid	F
CH_3	O-acyl	O	Guanine	O-amino acid	F
CH_3	O-acyl	O	Cytosine	O-amino acid	F
CH_3	O-acyl	O	Adenine	O-amino acid	F
CH_3	O-acyl	O	Hypoxanthine	O-amino acid	F
CH_3	O-acyl	O	5-Fluorouracil	O-amino acid	F
CH_3	O-acyl	O	8-Fluoroguanine	O-amino acid	F
CH_3	O-acyl	O	5-Fluorocytosine	O-amino acid	F
CH_3	O-acyl	O	8-Fluoroadenine	O-amino acid	F
CH_3	O-acyl	O	2-Fluoroadenine	O-amino acid	F
CH_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	2-Aminoadenine	O-amino acid	F
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	F
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	2-N-acetylguanine	O-amino acid	F
CH_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	F
CH_3	O-acyl	O	6-N-acetyladenine	O-amino acid	F
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	F
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	F
CH_3	O-acyl	O	Thymine	O-acyl	F
CH_3	O-acyl	O	Uracil	O-acyl	F
CH_3	O-acyl	O	Guanine	O-acyl	F
CH_3	O-acyl	O	Cytosine	O-acyl	F
CH_3	O-acyl	O	Adenine	O-acyl	F
CH_3	O-acyl	O	Hypoxanthine	O-acyl	F
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	F
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	F
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	F
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	F
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	F
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	F
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	F
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	F
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	F
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	F
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	F
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	F
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	F
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	F
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	F
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	F
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	F
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	F
CH_3	O-acyl	O	Thymine	OH	F
CH_3	O-acyl	O	Uracil	OH	F
CH_3	O-acyl	O	Guanine	OH	F
CH_3	O-acyl	O	Cytosine	OH	F
CH_3	O-acyl	O	Adenine	OH	F
CH_3	O-acyl	O	Hypoxanthine	OH	F
CH_3	O-acyl	O	5-Fluorouracil	OH	F
CH_3	O-acyl	O	8-Fluoroguanine	OH	F
CH_3	O-acyl	O	5-Fluorocytosine	OH	F
CH_3	O-acyl	O	8-Fluoroadenine	OH	F
CH_3	O-acyl	O	2-Fluoroadenine	OH	F
CH_3	O-acyl	O	2,8-Difluoroadenine	OH	F
CH_3	O-acyl	O	2-Fluorohypoxanthine	OH	F
CH_3	O-acyl	O	8-Fluorohypoxanthine	OH	F
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	F
CH_3	O-acyl	O	2-Aminoadenine	OH	F
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	F
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	F
CH_3	O-acyl	O	2-Aminohypoxanthine	OH	F
CH_3	O-acyl	O	2-N-acetylguanine	OH	F
CH_3	O-acyl	O	4-N-acetylcytosine	OH	F
CH_3	O-acyl	O	6-N-acetyladenine	OH	F
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	F
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	F
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	F
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	F
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	F
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CH_3	O-acyl	O	2-N-acetylaminoadenine	OH	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	F
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	F
CH_3	O-acyl	O	Thymine	H	Br
CH_3	O-acyl	O	Uracil	H	Br
CH_3	O-acyl	O	Guanine	H	Br
CH_3	O-acyl	O	Cytosine	H	Br
CH_3	O-acyl	O	Adenine	H	Br
CH_3	O-acyl	O	Hypoxanthine	H	Br
CH_3	O-acyl	O	5-Fluorouracil	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	8-Fluoroguanine	H	Br
CH_3	O-acyl	O	5-Fluorocytosine	H	Br
CH_3	O-acyl	O	8-Fluoroadenine	H	Br
CH_3	O-acyl	O	2-Fluoroadenine	H	Br
CH_3	O-acyl	O	2,8-Difluoroadenine	H	Br
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	Br
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	Br
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	Br
CH_3	O-acyl	O	2-Aminoadenine	H	Br
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	Br
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	Br
CH_3	O-acyl	O	2-Aminohypoxanthine	H	Br
CH_3	O-acyl	O	2-N-acetylguanine	H	Br
CH_3	O-acyl	O	4-N-acetylcytosine	H	Br
CH_3	O-acyl	O	6-N-acetyladenine	H	Br
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	Br
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	Br
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	Br
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	Br
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	Br
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	Br
CH_3	O-acyl	O	Thymine	O-amino acid	Br
CH_3	O-acyl	O	Uracil	O-amino acid	Br
CH_3	O-acyl	O	Guanine	O-amino acid	Br
CH_3	O-acyl	O	Cytosine	O-amino acid	Br
CH_3	O-acyl	O	Adenine	O-amino acid	Br
CH_3	O-acyl	O	Hypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	5-Fluorouracil	O-amino acid	Br
CH_3	O-acyl	O	8-Fluoroguanine	O-amino acid	Br
CH_3	O-acyl	O	5-Fluorocytosine	O-amino acid	Br
CH_3	O-acyl	O	8-Fluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	2-Fluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	2-Aminoadenine	O-amino acid	Br
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	2-N-acetylguanine	O-amino acid	Br
CH_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	6-N-acetyladenine	O-amino acid	Br
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	Br
CH_3	O-acyl	O	Thymine	O-acyl	Br
CH_3	O-acyl	O	Uracil	O-acyl	Br
CH_3	O-acyl	O	Guanine	O-acyl	Br
CH_3	O-acyl	O	Cytosine	O-acyl	Br
CH_3	O-acyl	O	Adenine	O-acyl	Br
CH_3	O-acyl	O	Hypoxanthine	O-acyl	Br
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	Br
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	Br
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	Br
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	Br
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	Br
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	Br
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	Br
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	Br
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	Br
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	Br
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	Br
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	Br
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	Br
CH_3	O-acyl	O	Thymine	OH	Br
CH_3	O-acyl	O	Uracil	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	Guanine	OH	Br
CH_3	O-acyl	O	Cytosine	OH	Br
CH_3	O-acyl	O	Adenine	OH	Br
CH_3	O-acyl	O	Hypoxanthine	OH	Br
CH_3	O-acyl	O	5-Fluorouracil	OH	Br
CH_3	O-acyl	O	8-Fluoroguanine	OH	Br
CH_3	O-acyl	O	5-Fluorocytosine	OH	Br
CH_3	O-acyl	O	8-Fluoroadenine	OH	Br
CH_3	O-acyl	O	2-Fluoroadenine	OH	Br
CH_3	O-acyl	O	2,8-Difluoroadenine	OH	Br
CH_3	O-acyl	O	2-Fluorohypoxanthine	OH	Br
CH_3	O-acyl	O	8-Fluorohypoxanthine	OH	Br
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	Br
CH_3	O-acyl	O	2-Aminoadenine	OH	Br
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	Br
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	Br
CH_3	O-acyl	O	2-Aminohypoxanthine	OH	Br
CH_3	O-acyl	O	2-N-acetylguanine	OH	Br
CH_3	O-acyl	O	4-N-acetylcytosine	OH	Br
CH_3	O-acyl	O	6-N-acetyladenine	OH	Br
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	Br
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	Br
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	Br
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	Br
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	Br
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CH_3	O-acyl	O	2-N-acetylaminoadenine	OH	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	Br
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	Br
CH_3	O-acyl	O	Thymine	O-acyl	Cl
CH_3	O-acyl	O	Uracil	O-acyl	Cl
CH_3	O-acyl	O	Guanine	O-acyl	Cl
CH_3	O-acyl	O	Cytosine	O-acyl	Cl
CH_3	O-acyl	O	Adenine	O-acyl	Cl
CH_3	O-acyl	O	Hypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	Cl
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	Cl
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	Cl
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	Cl
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	Cl
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	Cl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	Cl
CH_3	O-acyl	O	Thymine	OH	Cl
CH_3	O-acyl	O	Uracil	OH	Cl
CH_3	O-acyl	O	Guanine	OH	Cl
CH_3	O-acyl	O	Cytosine	OH	Cl
CH_3	O-acyl	O	Adenine	OH	Cl
CH_3	O-acyl	O	Hypoxanthine	OH	Cl
CH_3	O-acyl	O	5-Fluorouracil	OH	Cl
CH_3	O-acyl	O	8-Fluoroguanine	OH	Cl
CH_3	O-acyl	O	5-Fluorocytosine	OH	Cl
CH_3	O-acyl	O	8-Fluoroadenine	OH	Cl
CH_3	O-acyl	O	2-Fluoroadenine	OH	Cl
CH_3	O-acyl	O	2,8-Difluoroadenine	OH	Cl
CH_3	O-acyl	O	2-Fluorohypoxanthine	OH	Cl
CH_3	O-acyl	O	8-Fluorohypoxanthine	OH	Cl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	Cl
CH_3	O-acyl	O	2-Aminoadenine	OH	Cl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	Cl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	Cl
CH_3	O-acyl	O	2-Aminohypoxanthine	OH	Cl
CH_3	O-acyl	O	2-N-acetylguanine	OH	Cl
CH_3	O-acyl	O	4-N-acetylcytosine	OH	Cl
CH_3	O-acyl	O	6-N-acetyladenine	OH	Cl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	Cl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	Cl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	Cl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	Cl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CH_3	O-acyl	O	2-N-acetylaminoadenine	OH	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	Cl
CH_3	O-acyl	O	Thymine	H	Cl
CH_3	O-acyl	O	Uracil	H	Cl
CH_3	O-acyl	O	Guanine	H	Cl
CH_3	O-acyl	O	Cytosine	H	Cl
CH_3	O-acyl	O	Adenine	H	Cl
CH_3	O-acyl	O	Hypoxanthine	H	Cl
CH_3	O-acyl	O	5-Fluorouracil	H	Cl
CH_3	O-acyl	O	8-Fluoroguanine	H	Cl
CH_3	O-acyl	O	5-Fluorocytosine	H	Cl
CH_3	O-acyl	O	8-Fluoroadenine	H	Cl
CH_3	O-acyl	O	2-Fluoroadenine	H	Cl
CH_3	O-acyl	O	2,8-Difluoroadenine	H	Cl
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	Cl
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	Cl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	Cl
CH_3	O-acyl	O	2-Aminoadenine	H	Cl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	Cl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	Cl
CH_3	O-acyl	O	2-Aminohypoxanthine	H	Cl
CH_3	O-acyl	O	2-N-acetylguanine	H	Cl
CH_3	O-acyl	O	4-N-acetylcytosine	H	Cl
CH_3	O-acyl	O	6-N-acetyladenine	H	Cl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	Cl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	Cl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	Cl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	Cl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	Cl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	Cl
CH_3	O-acyl	O	Thymine	O-amino acid	Cl
CH_3	O-acyl	O	Uracil	O-amino acid	Cl
CH_3	O-acyl	O	Guanine	O-amino acid	Cl
CH_3	O-acyl	O	Cytosine	O-amino acid	Cl
CH_3	O-acyl	O	Adenine	O-amino acid	Cl
CH_3	O-acyl	O	Hypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	5-Fluorouracil	O-amino acid	Cl
CH_3	O-acyl	O	8-Fluoroguanine	O-amino acid	Cl
CH_3	O-acyl	O	5-Fluorocytosine	O-amino acid	Cl
CH_3	O-acyl	O	8-Fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-Fluoroadenine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	2-Aminoadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	2-N-acetylguanine	O-amino acid	Cl
CH_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	Cl
CH_3	O-acyl	O	6-N-acetyladenine	O-amino acid	Cl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	O	Thymine	H	H
CH_3	O-acyl	O	Uracil	H	H
CH_3	O-acyl	O	Guanine	H	H
CH_3	O-acyl	O	Cytosine	H	H
CH_3	O-acyl	O	Adenine	H	H
CH_3	O-acyl	O	Hypoxanthine	H	H
CH_3	O-acyl	O	5-Fluorouracil	H	H
CH_3	O-acyl	O	8-Fluoroguanine	H	H
CH_3	O-acyl	O	5-Fluorocytosine	H	H
CH_3	O-acyl	O	8-Fluoroadenine	H	H
CH_3	O-acyl	O	2-Fluoroadenine	H	H
CH_3	O-acyl	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	O	2-Aminoadenine	H	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	O	2-N-acetylguanine	H	H
CH_3	O-acyl	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	O	6-N-acetyladenine	H	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	O	Thymine	O-amino acid	H
CH_3	O-acyl	O	Uracil	O-amino acid	H
CH_3	O-acyl	O	Guanine	O-amino acid	H
CH_3	O-acyl	O	Cytosine	O-amino acid	H
CH_3	O-acyl	O	Adenine	O-amino acid	H
CH_3	O-acyl	O	Hypoxanthine	O-amino acid	H
CH_3	O-acyl	O	5-Fluorouracil	O-amino acid	H
CH_3	O-acyl	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-acyl	O	5-Fluorocytosine	O-amino acid	H
CH_3	O-acyl	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-acyl	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	2-Aminoadenine	O-amino acid	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-acyl	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	Thymine	O-acyl	H
CH_3	O-acyl	O	Uracil	O-acyl	H
CH_3	O-acyl	O	Guanine	O-acyl	H
CH_3	O-acyl	O	Cytosine	O-acyl	H
CH_3	O-acyl	O	Adenine	O-acyl	H
CH_3	O-acyl	O	Hypoxanthine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	Thymine	OH	H
CH_3	O-acyl	O	Uracil	OH	H
CH_3	O-acyl	O	Guanine	OH	H
CH_3	O-acyl	O	Cytosine	OH	H
CH_3	O-acyl	O	Adenine	OH	H
CH_3	O-acyl	O	Hypoxanthine	OH	H
CH_3	O-acyl	O	5-Fluorouracil	OH	H
CH_3	O-acyl	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	O	2-Aminoadenine	OH	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	O	2-N-acetylguanine	OH	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	O	Thymine	H	OH
CH_3	O-acyl	O	Uracil	H	OH
CH_3	O-acyl	O	Guanine	H	OH
CH_3	O-acyl	O	Cytosine	H	OH
CH_3	O-acyl	O	Adenine	H	OH
CH_3	O-acyl	O	Hypoxanthine	H	OH
CH_3	O-acyl	O	5-Fluorouracil	H	OH
CH_3	O-acyl	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	O	2-Aminoadenine	H	OH
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	O	Thymine	H	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	Uracil	H	F
CH_3	O-amino acid	O	Guanine	H	F
CH_3	O-amino acid	O	Cytosine	H	F
CH_3	O-amino acid	O	Adenine	H	F
CH_3	O-amino acid	O	Hypoxanthine	H	F
CH_3	O-amino acid	O	5-Fluorouracil	H	F
CH_3	O-amino acid	O	8-Fluoroguanine	H	F
CH_3	O-amino acid	O	5-Fluorocytosine	H	F
CH_3	O-amino acid	O	8-Fluoroadenine	H	F
CH_3	O-amino acid	O	2-Fluoroadenine	H	F
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	F
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	F
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	F
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	F
CH_3	O-amino acid	O	2-Aminoadenine	H	F
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	F
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	F
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	F
CH_3	O-amino acid	O	2-N-acetylguanine	H	F
CH_3	O-amino acid	O	4-N-acetylcytosine	H	F
CH_3	O-amino acid	O	6-N-acetyladenine	H	F
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	F
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	F
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	F
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	F
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	F
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	F
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	F
CH_3	O-amino acid	O	Thymine	O-amino acid	F
CH_3	O-amino acid	O	Uracil	O-amino acid	F
CH_3	O-amino acid	O	Guanine	O-amino acid	F
CH_3	O-amino acid	O	Cytosine	O-amino acid	F
CH_3	O-amino acid	O	Adenine	O-amino acid	F
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	F
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	F
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	F
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	F
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	F
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	F
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	F
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	F
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	F
CH_3	O-amino acid	O	Thymine	O-acyl	F
CH_3	O-amino acid	O	Uracil	O-acyl	F
CH_3	O-amino acid	O	Guanine	O-acyl	F
CH_3	O-amino acid	O	Cytosine	O-acyl	F
CH_3	O-amino acid	O	Adenine	O-acyl	F
CH_3	O-amino acid	O	Hypoxanthine	O-acyl	F
CH_3	O-amino acid	O	5-Fluorouracil	O-acyl	F
CH_3	O-amino acid	O	8-Fluoroguanine	O-acyl	F
CH_3	O-amino acid	O	5-Fluorocytosine	O-acyl	F
CH_3	O-amino acid	O	8-Fluoroadenine	O-acyl	F
CH_3	O-amino acid	O	2-Fluoroadenine	O-acyl	F
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	F
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	2-Aminoadenine	O-acyl	F
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	F
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	2-N-acetylguanine	O-acyl	F
CH_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	F
CH_3	O-amino acid	O	6-N-acetyladenine	O-acyl	F
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	F
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	F
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	F
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	F
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	F
CH_3	O-amino acid	O	Thymine	OH	F
CH_3	O-amino acid	O	Uracil	OH	F
CH_3	O-amino acid	O	Guanine	OH	F
CH_3	O-amino acid	O	Cytosine	OH	F
CH_3	O-amino acid	O	Adenine	OH	F
CH_3	O-amino acid	O	Hypoxanthine	OH	F
CH_3	O-amino acid	O	5-Fluorouracil	OH	F
CH_3	O-amino acid	O	8-Fluoroguanine	OH	F
CH_3	O-amino acid	O	5-Fluorocytosine	OH	F
CH_3	O-amino acid	O	8-Fluoroadenine	OH	F
CH_3	O-amino acid	O	2-Fluoroadenine	OH	F
CH_3	O-amino acid	O	2,8-Difluoroadenine	OH	F
CH_3	O-amino acid	O	2-Fluorohypoxanthine	OH	F
CH_3	O-amino acid	O	8-Fluorohypoxanthine	OH	F
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	F
CH_3	O-amino acid	O	2-Aminoadenine	OH	F
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	F
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	F
CH_3	O-amino acid	O	2-Aminohypoxanthine	OH	F
CH_3	O-amino acid	O	2-N-acetylguanine	OH	F
CH_3	O-amino acid	O	4-N-acetylcytosine	OH	F
CH_3	O-amino acid	O	6-N-acetyladenine	OH	F
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	F
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	F
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	F
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	F
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	F
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CH_3	O-amino acid	O	2-N-acetylaminoadenine	OH	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	F
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	F
CH_3	O-amino acid	O	Thymine	H	Br
CH_3	O-amino acid	O	Uracil	H	Br
CH_3	O-amino acid	O	Guanine	H	Br
CH_3	O-amino acid	O	Cytosine	H	Br
CH_3	O-amino acid	O	Adenine	H	Br
CH_3	O-amino acid	O	Hypoxanthine	H	Br
CH_3	O-amino acid	O	5-Fluorouracil	H	Br
CH_3	O-amino acid	O	8-Fluoroguanine	H	Br
CH_3	O-amino acid	O	5-Fluorocytosine	H	Br
CH_3	O-amino acid	O	8-Fluoroadenine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	2-Fluoroadenine	H	Br
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	Br
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	Br
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	Br
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	Br
CH_3	O-amino acid	O	2-Aminoadenine	H	Br
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	Br
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	Br
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	Br
CH_3	O-amino acid	O	2-N-acetylguanine	H	Br
CH_3	O-amino acid	O	4-N-acetylcytosine	H	Br
CH_3	O-amino acid	O	6-N-acetyladenine	H	Br
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	Br
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	Br
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	Br
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	Br
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	Br
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	Br
CH_3	O-amino acid	O	Thymine	O-amino acid	Br
CH_3	O-amino acid	O	Uracil	O-amino acid	Br
CH_3	O-amino acid	O	Guanine	O-amino acid	Br
CH_3	O-amino acid	O	Cytosine	O-amino acid	Br
CH_3	O-amino acid	O	Adenine	O-amino acid	Br
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	Br
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	Br
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	Br
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	Br
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	Br
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	Br
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	O	Thymine	O-acyl	Br
CH_3	O-amino acid	O	Uracil	O-acyl	Br
CH_3	O-amino acid	O	Guanine	O-acyl	Br
CH_3	O-amino acid	O	Cytosine	O-acyl	Br
CH_3	O-amino acid	O	Adenine	O-acyl	Br
CH_3	O-amino acid	O	Hypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	5-Fluorouracil	O-acyl	Br
CH_3	O-amino acid	O	8-Fluoroguanine	O-acyl	Br
CH_3	O-amino acid	O	5-Fluorocytosine	O-acyl	Br
CH_3	O-amino acid	O	8-Fluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	2-Fluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	2-Aminoadenine	O-acyl	Br
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	2-N-acetylguanine	O-acyl	Br
CH_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	Br
CH_3	O-amino acid	O	6-N-acetyladenine	O-acyl	Br
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	Br
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	Br
CH_3	O-amino acid	O	Thymine	OH	Br
CH_3	O-amino acid	O	Uracil	OH	Br
CH_3	O-amino acid	O	Guanine	OH	Br
CH_3	O-amino acid	O	Cytosine	OH	Br
CH_3	O-amino acid	O	Adenine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	Hypoxanthine	OH	Br
CH_3	O-amino acid	O	5-Fluorouracil	OH	Br
CH_3	O-amino acid	O	8-Fluoroguanine	OH	Br
CH_3	O-amino acid	O	5-Fluorocytosine	OH	Br
CH_3	O-amino acid	O	8-Fluoroadenine	OH	Br
CH_3	O-amino acid	O	2-Fluoroadenine	OH	Br
CH_3	O-amino acid	O	2,8-Difluoroadenine	OH	Br
CH_3	O-amino acid	O	2-Fluorohypoxanthine	OH	Br
CH_3	O-amino acid	O	8-Fluorohypoxanthine	OH	Br
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	Br
CH_3	O-amino acid	O	2-Aminoadenine	OH	Br
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	Br
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	Br
CH_3	O-amino acid	O	2-Aminohypoxanthine	OH	Br
CH_3	O-amino acid	O	2-N-acetylguanine	OH	Br
CH_3	O-amino acid	O	4-N-acetylcytosine	OH	Br
CH_3	O-amino acid	O	6-N-acetyladenine	OH	Br
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	Br
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	Br
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	Br
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	Br
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	Br
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CH_3	O-amino acid	O	2-N-acetylaminoadenine	OH	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	Br
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	Br
CH_3	O-amino acid	O	Thymine	H	Cl
CH_3	O-amino acid	O	Uracil	H	Cl
CH_3	O-amino acid	O	Guanine	H	Cl
CH_3	O-amino acid	O	Cytosine	H	Cl
CH_3	O-amino acid	O	Adenine	H	Cl
CH_3	O-amino acid	O	Hypoxanthine	H	Cl
CH_3	O-amino acid	O	5-Fluorouracil	H	Cl
CH_3	O-amino acid	O	8-Fluoroguanine	H	Cl
CH_3	O-amino acid	O	5-Fluorocytosine	H	Cl
CH_3	O-amino acid	O	8-Fluoroadenine	H	Cl
CH_3	O-amino acid	O	2-Fluoroadenine	H	Cl
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	Cl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	Cl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	Cl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	Cl
CH_3	O-amino acid	O	2-Aminoadenine	H	Cl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	Cl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	Cl
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	2-N-acetylguanine	H	Cl
CH_3	O-amino acid	O	4-N-acetylcytosine	H	Cl
CH_3	O-amino acid	O	6-N-acetyladenine	H	Cl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	Cl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	Cl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	Cl
CH_3	O-amino acid	O	Thymine	O-amino acid	Cl
CH_3	O-amino acid	O	Uracil	O-amino acid	Cl
CH_3	O-amino acid	O	Guanine	O-amino acid	Cl
CH_3	O-amino acid	O	Cytosine	O-amino acid	Cl
CH_3	O-amino acid	O	Adenine	O-amino acid	Cl
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	Cl
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	Cl
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	Cl
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	Cl
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	Cl
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	Thymine	O-acyl	Cl
CH_3	O-amino acid	O	Uracil	O-acyl	Cl
CH_3	O-amino acid	O	Guanine	O-acyl	Cl
CH_3	O-amino acid	O	Cytosine	O-acyl	Cl
CH_3	O-amino acid	O	Adenine	O-acyl	Cl
CH_3	O-amino acid	O	Hypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	5-Fluorouracil	O-acyl	Cl
CH_3	O-amino acid	O	8-Fluoroguanine	O-acyl	Cl
CH_3	O-amino acid	O	5-Fluorocytosine	O-acyl	Cl
CH_3	O-amino acid	O	8-Fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-Fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	2-Aminoadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	2-N-acetylguanine	O-acyl	Cl
CH_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	Cl
CH_3	O-amino acid	O	6-N-acetyladenine	O-acyl	Cl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	O	Thymine	OH	Cl
CH_3	O-amino acid	O	Uracil	OH	Cl
CH_3	O-amino acid	O	Guanine	OH	Cl
CH_3	O-amino acid	O	Cytosine	OH	Cl
CH_3	O-amino acid	O	Adenine	OH	Cl
CH_3	O-amino acid	O	Hypoxanthine	OH	Cl
CH_3	O-amino acid	O	5-Fluorouracil	OH	Cl
CH_3	O-amino acid	O	8-Fluoroguanine	OH	Cl
CH_3	O-amino acid	O	5-Fluorocytosine	OH	Cl
CH_3	O-amino acid	O	8-Fluoroadenine	OH	Cl
CH_3	O-amino acid	O	2-Fluoroadenine	OH	Cl
CH_3	O-amino acid	O	2,8-Difluoroadenine	OH	Cl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	OH	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	Cl
CH_3	O-amino acid	O	2-Aminoadenine	OH	Cl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	Cl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	O	2-Aminohypoxanthine	OH	Cl
CH_3	O-amino acid	O	2-N-acetylguanine	OH	Cl
CH_3	O-amino acid	O	4-N-acetylcytosine	OH	Cl
CH_3	O-amino acid	O	6-N-acetyladenine	OH	Cl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	Cl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	Cl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	Cl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	OH	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	Cl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	Cl
CH_3	O-amino acid	O	Thymine	H	H
CH_3	O-amino acid	O	Uracil	H	H
CH_3	O-amino acid	O	Guanine	H	H
CH_3	O-amino acid	O	Cytosine	H	H
CH_3	O-amino acid	O	Adenine	H	H
CH_3	O-amino acid	O	Hypoxanthine	H	H
CH_3	O-amino acid	O	5-Fluorouracil	H	H
CH_3	O-amino acid	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	O	2-Aminoadenine	H	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	O	Thymine	O-amino acid	H
CH_3	O-amino acid	O	Uracil	O-amino acid	H
CH_3	O-amino acid	O	Guanine	O-amino acid	H
CH_3	O-amino acid	O	Cytosine	O-amino acid	H
CH_3	O-amino acid	O	Adenine	O-amino acid	H
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	Thymine	O-acyl	H
CH_3	O-amino acid	O	Uracil	O-acyl	H
CH_3	O-amino acid	O	Guanine	O-acyl	H
CH_3	O-amino acid	O	Cytosine	O-acyl	H
CH_3	O-amino acid	O	Adenine	O-acyl	H
CH_3	O-amino acid	O	Hypoxanthine	O-acyl	H
CH_3	O-amino acid	O	5-Fluorouracil	O-acyl	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-acyl	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	8-Fluoroadenine	O-acyl	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-acyl	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	2-Aminoadenine	O-acyl	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-acyl	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-acyl	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	Thymine	OH	H
CH_3	O-amino acid	O	Uracil	OH	H
CH_3	O-amino acid	O	Guanine	OH	H
CH_3	O-amino acid	O	Cytosine	OH	H
CH_3	O-amino acid	O	Adenine	OH	H
CH_3	O-amino acid	O	Hypoxanthine	OH	H
CH_3	O-amino acid	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	O	Thymine	H	OH
CH_3	O-amino acid	O	Uracil	H	OH
CH_3	O-amino acid	O	Guanine	H	OH
CH_3	O-amino acid	O	Cytosine	H	OH
CH_3	O-amino acid	O	Adenine	H	OH
CH_3	O-amino acid	O	Hypoxanthine	H	OH
CH_3	O-amino acid	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	OH	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	OH	O	Thymine	O-amino acid	F
CH_3	OH	O	Uracil	O-amino acid	F
CH_3	OH	O	Guanine	O-amino acid	F
CH_3	OH	O	Cytosine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	O	Adenine	O-amino acid	F
CH_3	OH	O	Hypoxanthine	O-amino acid	F
CH_3	OH	O	5-Fluorouracil	O-amino acid	F
CH_3	OH	O	8-Fluoroguanine	O-amino acid	F
CH_3	OH	O	5-Fluorocytosine	O-amino acid	F
CH_3	OH	O	8-Fluoroadenine	O-amino acid	F
CH_3	OH	O	2-Fluoroadenine	O-amino acid	F
CH_3	OH	O	2,8-Difluoroadenine	O-amino acid	F
CH_3	OH	O	2-Fluorohypoxanthine	O-amino acid	F
CH_3	OH	O	8-Fluorohypoxanthine	O-amino acid	F
CH_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	F
CH_3	OH	O	2-Aminoadenine	O-amino acid	F
CH_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	F
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CH_3	OH	O	2-Aminohypoxanthine	O-amino acid	F
CH_3	OH	O	2-N-acetylguanine	O-amino acid	F
CH_3	OH	O	4-N-acetylcytosine	O-amino acid	F
CH_3	OH	O	6-N-acetyladenine	O-amino acid	F
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	F
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CH_3	OH	O	2-N-acetylaminoadenine	O-amino acid	F
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	F
CH_3	OH	O	Thymine	O-acyl	F
CH_3	OH	O	Uracil	O-acyl	F
CH_3	OH	O	Guanine	O-acyl	F
CH_3	OH	O	Cytosine	O-acyl	F
CH_3	OH	O	Adenine	O-acyl	F
CH_3	OH	O	Hypoxanthine	O-acyl	F
CH_3	OH	O	5-Fluorouracil	O-acyl	F
CH_3	OH	O	8-Fluoroguanine	O-acyl	F
CH_3	OH	O	5-Fluorocytosine	O-acyl	F
CH_3	OH	O	8-Fluoroadenine	O-acyl	F
CH_3	OH	O	2-Fluoroadenine	O-acyl	F
CH_3	OH	O	2,8-Difluoroadenine	O-acyl	F
CH_3	OH	O	2-Fluorohypoxanthine	O-acyl	F
CH_3	OH	O	8-Fluorohypoxanthine	O-acyl	F
CH_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	F
CH_3	OH	O	2-Aminoadenine	O-acyl	F
CH_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	F
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	O	2-Aminohypoxanthine	O-acyl	F
CH_3	OH	O	2-N-acetylguanine	O-acyl	F
CH_3	OH	O	4-N-acetylcytosine	O-acyl	F
CH_3	OH	O	6-N-acetyladenine	O-acyl	F
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	F
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	F
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	F
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	F
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CH_3	OH	O	2-N-acetylaminoadenine	O-acyl	F
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-acyl	F
CH_3	OH	O	Thymine	O-amino acid	Br
CH_3	OH	O	Uracil	O-amino acid	Br
CH_3	OH	O	Guanine	O-amino acid	Br
CH_3	OH	O	Cytosine	O-amino acid	Br
CH_3	OH	O	Adenine	O-amino acid	Br
CH_3	OH	O	Hypoxanthine	O-amino acid	Br
CH_3	OH	O	5-Fluorouracil	O-amino acid	Br
CH_3	OH	O	8-Fluoroguanine	O-amino acid	Br
CH_3	OH	O	5-Fluorocytosine	O-amino acid	Br
CH_3	OH	O	8-Fluoroadenine	O-amino acid	Br
CH_3	OH	O	2-Fluoroadenine	O-amino acid	Br
CH_3	OH	O	2,8-Difluoroadenine	O-amino acid	Br
CH_3	OH	O	2-Fluorohypoxanthine	O-amino acid	Br
CH_3	OH	O	8-Fluorohypoxanthine	O-amino acid	Br
CH_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	Br
CH_3	OH	O	2-Aminoadenine	O-amino acid	Br
CH_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	Br
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	OH	O	2-Aminohypoxanthine	O-amino acid	Br
CH_3	OH	O	2-N-acetylguanine	O-amino acid	Br
CH_3	OH	O	4-N-acetylcytosine	O-amino acid	Br
CH_3	OH	O	6-N-acetyladenine	O-amino acid	Br
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CH_3	OH	O	2-N-acetylaminoadenine	O-amino acid	Br
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	Br
CH_3	OH	O	Thymine	O-acyl	Br
CH_3	OH	O	Uracil	O-acyl	Br
CH_3	OH	O	Guanine	O-acyl	Br
CH_3	OH	O	Cytosine	O-acyl	Br
CH_3	OH	O	Adenine	O-acyl	Br
CH_3	OH	O	Hypoxanthine	O-acyl	Br
CH_3	OH	O	5-Fluorouracil	O-acyl	Br
CH_3	OH	O	8-Fluoroguanine	O-acyl	Br
CH_3	OH	O	5-Fluorocytosine	O-acyl	Br
CH_3	OH	O	8-Fluoroadenine	O-acyl	Br
CH_3	OH	O	2-Fluoroadenine	O-acyl	Br
CH_3	OH	O	2,8-Difluoroadenine	O-acyl	Br
CH_3	OH	O	2-Fluorohypoxanthine	O-acyl	Br
CH_3	OH	O	8-Fluorohypoxanthine	O-acyl	Br
CH_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	Br
CH_3	OH	O	2-Aminoadenine	O-acyl	Br
CH_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	Br
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CH_3	OH	O	2-Aminohypoxanthine	O-acyl	Br
CH_3	OH	O	2-N-acetylguanine	O-acyl	Br
CH_3	OH	O	4-N-acetylcytosine	O-acyl	Br
CH_3	OH	O	6-N-acetyladenine	O-acyl	Br
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	Br
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CH_3	OH	O	2-N-acetylaminoadenine	O-acyl	Br
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-acyl	Br
CH_3	OH	O	Thymine	O-amino acid	Cl
CH_3	OH	O	Uracil	O-amino acid	Cl
CH_3	OH	O	Guanine	O-amino acid	Cl
CH_3	OH	O	Cytosine	O-amino acid	Cl
CH_3	OH	O	Adenine	O-amino acid	Cl
CH_3	OH	O	Hypoxanthine	O-amino acid	Cl
CH_3	OH	O	5-Fluorouracil	O-amino acid	Cl
CH_3	OH	O	8-Fluoroguanine	O-amino acid	Cl
CH_3	OH	O	5-Fluorocytosine	O-amino acid	Cl
CH_3	OH	O	8-Fluoroadenine	O-amino acid	Cl
CH_3	OH	O	2-Fluoroadenine	O-amino acid	Cl
CH_3	OH	O	2,8-Difluoroadenine	O-amino acid	Cl
CH_3	OH	O	2-Fluorohypoxanthine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	O	8-Fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	Cl
CH_3	OH	O	2-Aminoadenine	O-amino acid	Cl
CH_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	Cl
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	O	2-Aminohypoxanthine	O-amino acid	Cl
CH_3	OH	O	2-N-acetylguanine	O-amino acid	Cl
CH_3	OH	O	4-N-acetylcytosine	O-amino acid	Cl
CH_3	OH	O	6-N-acetyladenine	O-amino acid	Cl
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CH_3	OH	O	2-N-acetylaminoadenine	O-amino acid	Cl
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CH_3	OH	O	Thymine	O-acyl	Cl
CH_3	OH	O	Uracil	O-acyl	Cl
CH_3	OH	O	Guanine	O-acyl	Cl
CH_3	OH	O	Cytosine	O-acyl	Cl
CH_3	OH	O	Adenine	O-acyl	Cl
CH_3	OH	O	Hypoxanthine	O-acyl	Cl
CH_3	OH	O	5-Fluorouracil	O-acyl	Cl
CH_3	OH	O	8-Fluoroguanine	O-acyl	Cl
CH_3	OH	O	5-Fluorocytosine	O-acyl	Cl
CH_3	OH	O	8-Fluoroadenine	O-acyl	Cl
CH_3	OH	O	2-Fluoroadenine	O-acyl	Cl
CH_3	OH	O	2,8-Difluoroadenine	O-acyl	Cl
CH_3	OH	O	2-Fluorohypoxanthine	O-acyl	Cl
CH_3	OH	O	8-Fluorohypoxanthine	O-acyl	Cl
CH_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	Cl
CH_3	OH	O	2-Aminoadenine	O-acyl	Cl
CH_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	Cl
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	OH	O	2-Aminohypoxanthine	O-acyl	Cl
CH_3	OH	O	2-N-acetylguanine	O-acyl	Cl
CH_3	OH	O	4-N-acetylcytosine	O-acyl	Cl
CH_3	OH	O	6-N-acetyladenine	O-acyl	Cl
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CH_3	OH	O	2-N-acetylaminoadenine	O-acyl	Cl
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-acyl	Cl
CH_3	OH	O	Thymine	O-amino acid	H
CH_3	OH	O	Uracil	O-amino acid	H
CH_3	OH	O	Guanine	O-amino acid	H
CH_3	OH	O	Cytosine	O-amino acid	H
CH_3	OH	O	Adenine	O-amino acid	H
CH_3	OH	O	Hypoxanthine	O-amino acid	H
CH_3	OH	O	5-Fluorouracil	O-amino acid	H
CH_3	OH	O	8-Fluoroguanine	O-amino acid	H
CH_3	OH	O	5-Fluorocytosine	O-amino acid	H
CH_3	OH	O	8-Fluoroadenine	O-amino acid	H
CH_3	OH	O	2-Fluoroadenine	O-amino acid	H
CH_3	OH	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	OH	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	OH	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	OH	O	2-Aminoadenine	O-amino acid	H
CH_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	OH	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	OH	O	2-N-acetylguanine	O-amino acid	H
CH_3	OH	O	4-N-acetylcytosine	O-amino acid	H
CH_3	OH	O	6-N-acetyladenine	O-amino acid	H
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	OH	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	OH	O	Thymine	O-acyl	H
CH_3	OH	O	Uracil	O-acyl	H
CH_3	OH	O	Guanine	O-acyl	H
CH_3	OH	O	Cytosine	O-acyl	H
CH_3	OH	O	Adenine	O-acyl	H
CH_3	OH	O	Hypoxanthine	O-acyl	H
CH_3	OH	O	5-Fluorouracil	O-acyl	H
CH_3	OH	O	8-Fluoroguanine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	O	5-Fluorocytosine	O-acyl	H
CH_3	OH	O	8-Fluoroadenine	O-acyl	H
CH_3	OH	O	2-Fluoroadenine	O-acyl	H
CH_3	OH	O	2,8-Difluoroadenine	O-acyl	H
CH_3	OH	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	OH	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	OH	O	2-Aminoadenine	O-acyl	H
CH_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	OH	O	2-Aminohypoxanthine	O-acyl	H
CH_3	OH	O	2-N-acetylguanine	O-acyl	H
CH_3	OH	O	4-N-acetylcytosine	O-acyl	H
CH_3	OH	O	6-N-acetyladenine	O-acyl	H
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	OH	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	H	O	Thymine	O-amino acid	O-amino acid
CH_3	H	O	Uracil	O-amino acid	O-amino acid
CH_3	H	O	Guanine	O-amino acid	O-amino acid
CH_3	H	O	Cytosine	O-amino acid	O-amino acid
CH_3	H	O	Adenine	O-amino acid	O-amino acid
CH_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	Thymine	O-acyl	O-acyl
CH_3	H	O	Uracil	O-acyl	O-acyl
CH_3	H	O	Guanine	O-acyl	O-acyl
CH_3	H	O	Cytosine	O-acyl	O-acyl
CH_3	H	O	Adenine	O-acyl	O-acyl
CH_3	H	O	Hypoxanthine	O-acyl	O-acyl
CH_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	Thymine	O-amino acid	O-amino acid
CH_3	H	O	Uracil	O-amino acid	O-amino acid
CH_3	H	O	Guanine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	O	Cytosine	O-amino acid	O-amino acid
CH_3	H	O	Adenine	O-amino acid	O-amino acid
CH_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	Thymine	O-acyl	O-acyl
CH_3	H	O	Uracil	O-acyl	O-acyl
CH_3	H	O	Guanine	O-acyl	O-acyl
CH_3	H	O	Cytosine	O-acyl	O-acyl
CH_3	H	O	Adenine	O-acyl	O-acyl
CH_3	H	O	Hypoxanthine	O-acyl	O-acyl
CH_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	Thymine	O-amino acid	O-amino acid
CH_3	H	O	Uracil	O-amino acid	O-amino acid
CH_3	H	O	Guanine	O-amino acid	O-amino acid
CH_3	H	O	Cytosine	O-amino acid	O-amino acid
CH_3	H	O	Adenine	O-amino acid	O-amino acid
CH_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
			fluorohypoxanthine		
CH_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	Thymine	O-acyl	O-acyl
CH_3	H	O	Uracil	O-acyl	O-acyl
CH_3	H	O	Guanine	O-acyl	O-acyl
CH_3	H	O	Cytosine	O-acyl	O-acyl
CH_3	H	O	Adenine	O-acyl	O-acyl
CH_3	H	O	Hypoxanthine	O-acyl	O-acyl
CH_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	Thymine	O-amino acid	O-amino acid
CH_3	H	O	Uracil	O-amino acid	O-amino acid
CH_3	H	O	Guanine	O-amino acid	O-amino acid
CH_3	H	O	Cytosine	O-amino acid	O-amino acid
CH_3	H	O	Adenine	O-amino acid	O-amino acid
CH_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	Thymine	O-acyl	O-acyl
CH_3	H	O	Uracil	O-acyl	O-acyl
CH_3	H	O	Guanine	O-acyl	O-acyl
CH_3	H	O	Cytosine	O-acyl	O-acyl
CH_3	H	O	Adenine	O-acyl	O-acyl
CH_3	H	O	Hypoxanthine	O-acyl	O-acyl
CH_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	Thymine	O-amino acid	O-amino acid
CH_3	H	O	Uracil	O-amino acid	O-amino acid
CH_3	H	O	Guanine	O-amino acid	O-amino acid
CH_3	H	O	Cytosine	O-amino acid	O-amino acid
CH_3	H	O	Adenine	O-amino acid	O-amino acid
CH_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	O	Thymine	O-acyl	O-acyl
CH_3	H	O	Uracil	O-acyl	O-acyl
CH_3	H	O	Guanine	O-acyl	O-acyl
CH_3	H	O	Cytosine	O-acyl	O-acyl
CH_3	H	O	Adenine	O-acyl	O-acyl
CH_3	H	O	Hypoxanthine	O-acyl	O-acyl
CH_3	H	O	5-Fluorouracil	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	O-acyl	O	Thymine	H	F
CF_3	O-acyl	O	Uracil	H	F
CF_3	O-acyl	O	Guanine	H	F
CF_3	O-acyl	O	Cytosine	H	F
CF_3	O-acyl	O	Adenine	H	F
CF_3	O-acyl	O	Hypoxanthine	H	F
CF_3	O-acyl	O	5-Fluorouracil	H	F
CF_3	O-acyl	O	8-Fluoroguanine	H	F
CF_3	O-acyl	O	5-Fluorocytosine	H	F
CF_3	O-acyl	O	8-Fluoroadenine	H	F
CF_3	O-acyl	O	2-Fluoroadenine	H	F
CF_3	O-acyl	O	2,8-Difluoroadenine	H	F
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	F
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	F
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	F
CF_3	O-acyl	O	2-Aminoadenine	H	F
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	F
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	F
CF_3	O-acyl	O	2-Aminohypoxanthine	H	F
CF_3	O-acyl	O	2-N-acetylguanine	H	F
CF_3	O-acyl	O	4-N-acetylcytosine	H	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	6-N-acetyladenine	H	F
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	F
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	F
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	F
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	F
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	F
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	F
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	F
CF_3	O-acyl	O	Thymine	O-amino acid	F
CF_3	O-acyl	O	Uracil	O-amino acid	F
CF_3	O-acyl	O	Guanine	O-amino acid	F
CF_3	O-acyl	O	Cytosine	O-amino acid	F
CF_3	O-acyl	O	Adenine	O-amino acid	F
CF_3	O-acyl	O	Hypoxanthine	O-amino acid	F
CF_3	O-acyl	O	5-Fluorouracil	O-amino acid	F
CF_3	O-acyl	O	8-Fluoroguanine	O-amino acid	F
CF_3	O-acyl	O	5-Fluorocytosine	O-amino acid	F
CF_3	O-acyl	O	8-Fluoroadenine	O-amino acid	F
CF_3	O-acyl	O	2-Fluoroadenine	O-amino acid	F
CF_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	F
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	2-Aminoadenine	O-amino acid	F
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	F
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	2-N-acetylguanine	O-amino acid	F
CF_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	F
CF_3	O-acyl	O	6-N-acetyladenine	O-amino acid	F
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	F
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	F
CF_3	O-acyl	O	Thymine	O-acyl	F
CF_3	O-acyl	O	Uracil	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	Guanine	O-acyl	F
CF_3	O-acyl	O	Cytosine	O-acyl	F
CF_3	O-acyl	O	Adenine	O-acyl	F
CF_3	O-acyl	O	Hypoxanthine	O-acyl	F
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	F
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	F
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	F
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	F
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	F
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	F
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	F
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	F
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	F
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	F
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	F
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	F
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	F
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	F
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	F
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	F
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	F
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	F
CF_3	O-acyl	O	Thymine	OH	F
CF_3	O-acyl	O	Uracil	OH	F
CF_3	O-acyl	O	Guanine	OH	F
CF_3	O-acyl	O	Cytosine	OH	F
CF_3	O-acyl	O	Adenine	OH	F
CF_3	O-acyl	O	Hypoxanthine	OH	F
CF_3	O-acyl	O	5-Fluorouracil	OH	F
CF_3	O-acyl	O	8-Fluoroguanine	OH	F
CF_3	O-acyl	O	5-Fluorocytosine	OH	F
CF_3	O-acyl	O	8-Fluoroadenine	OH	F
CF_3	O-acyl	O	2-Fluoroadenine	OH	F
CF_3	O-acyl	O	2,8-Difluoroadenine	OH	F
CF_3	O-acyl	O	2-Fluorohypoxanthine	OH	F
CF_3	O-acyl	O	8-Fluorohypoxanthine	OH	F
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	F
CF_3	O-acyl	O	2-Aminoadenine	OH	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	F
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	F
CF_3	O-acyl	O	2-Aminohypoxanthine	OH	F
CF_3	O-acyl	O	2-N-acetylguanine	OH	F
CF_3	O-acyl	O	4-N-acetylcytosine	OH	F
CF_3	O-acyl	O	6-N-acetyladenine	OH	F
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	F
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	F
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	F
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	F
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	F
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CF_3	O-acyl	O	2-N-acetylaminoadenine	OH	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	F
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	F
CF_3	O-acyl	O	Thymine	H	Br
CF_3	O-acyl	O	Uracil	H	Br
CF_3	O-acyl	O	Guanine	H	Br
CF_3	O-acyl	O	Cytosine	H	Br
CF_3	O-acyl	O	Adenine	H	Br
CF_3	O-acyl	O	Hypoxanthine	H	Br
CF_3	O-acyl	O	5-Fluorouracil	H	Br
CF_3	O-acyl	O	8-Fluoroguanine	H	Br
CF_3	O-acyl	O	5-Fluorocytosine	H	Br
CF_3	O-acyl	O	8-Fluoroadenine	H	Br
CF_3	O-acyl	O	2-Fluoroadenine	H	Br
CF_3	O-acyl	O	2,8-Difluoroadenine	H	Br
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	Br
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	Br
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	Br
CF_3	O-acyl	O	2-Aminoadenine	H	Br
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	Br
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	Br
CF_3	O-acyl	O	2-Aminohypoxanthine	H	Br
CF_3	O-acyl	O	2-N-acetylguanine	H	Br
CF_3	O-acyl	O	4-N-acetylcytosine	H	Br
CF_3	O-acyl	O	6-N-acetyladenine	H	Br
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	Br
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	Br
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	Br
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	Br
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	Br
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	Br
CF_3	O-acyl	O	Thymine	O-amino acid	Br
CF_3	O-acyl	O	Uracil	O-amino acid	Br
CF_3	O-acyl	O	Guanine	O-amino acid	Br
CF_3	O-acyl	O	Cytosine	O-amino acid	Br
CF_3	O-acyl	O	Adenine	O-amino acid	Br
CF_3	O-acyl	O	Hypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	5-Fluorouracil	O-amino acid	Br
CF_3	O-acyl	O	8-Fluoroguanine	O-amino acid	Br
CF_3	O-acyl	O	5-Fluorocytosine	O-amino acid	Br
CF_3	O-acyl	O	8-Fluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	2-Fluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	2-Aminoadenine	O-amino acid	Br
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	2-N-acetylguanine	O-amino acid	Br
CF_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	Br
CF_3	O-acyl	O	6-N-acetyladenine	O-amino acid	Br
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	Br
CF_3	O-acyl	O	Thymine	O-acyl	Br
CF_3	O-acyl	O	Uracil	O-acyl	Br
CF_3	O-acyl	O	Guanine	O-acyl	Br
CF_3	O-acyl	O	Cytosine	O-acyl	Br
CF_3	O-acyl	O	Adenine	O-acyl	Br
CF_3	O-acyl	O	Hypoxanthine	O-acyl	Br
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	Br
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	Br
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	Br
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	Br
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	Br
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	Br
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	Br
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	Br
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	Br
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	Br
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	Br
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	Br
CF_3	O-acyl	O	Thymine	OH	Br
CF_3	O-acyl	O	Uracil	OH	Br
CF_3	O-acyl	O	Guanine	OH	Br
CF_3	O-acyl	O	Cytosine	OH	Br
CF_3	O-acyl	O	Adenine	OH	Br
CF_3	O-acyl	O	Hypoxanthine	OH	Br
CF_3	O-acyl	O	5-Fluorouracil	OH	Br
CF_3	O-acyl	O	8-Fluoroguanine	OH	Br
CF_3	O-acyl	O	5-Fluorocytosine	OH	Br
CF_3	O-acyl	O	8-Fluoroadenine	OH	Br
CF_3	O-acyl	O	2-Fluoroadenine	OH	Br
CF_3	O-acyl	O	2,8-Difluoroadenine	OH	Br
CF_3	O-acyl	O	2-Fluorohypoxanthine	OH	Br
CF_3	O-acyl	O	8-Fluorohypoxanthine	OH	Br
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	Br
CF_3	O-acyl	O	2-Aminoadenine	OH	Br
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	Br
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	Br
CF_3	O-acyl	O	2-Aminohypoxanthine	OH	Br
CF_3	O-acyl	O	2-N-acetylguanine	OH	Br
CF_3	O-acyl	O	4-N-acetylcytosine	OH	Br
CF_3	O-acyl	O	6-N-acetyladenine	OH	Br
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	Br
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	Br
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	Br
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	Br
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CF_3	O-acyl	O	2-N-acetylaminoadenine	OH	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	Br
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	Br
CF_3	O-acyl	O	Thymine	O-acyl	Cl
CF_3	O-acyl	O	Uracil	O-acyl	Cl
CF_3	O-acyl	O	Guanine	O-acyl	Cl
CF_3	O-acyl	O	Cytosine	O-acyl	Cl
CF_3	O-acyl	O	Adenine	O-acyl	Cl
CF_3	O-acyl	O	Hypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	Cl
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	Cl
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	Cl
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	Cl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	Cl
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	Cl
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	Cl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	Cl
CF_3	O-acyl	O	Thymine	OH	Cl
CF_3	O-acyl	O	Uracil	OH	Cl
CF_3	O-acyl	O	Guanine	OH	Cl
CF_3	O-acyl	O	Cytosine	OH	Cl
CF_3	O-acyl	O	Adenine	OH	Cl
CF_3	O-acyl	O	Hypoxanthine	OH	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	5-Fluorouracil	OH	Cl
CF_3	O-acyl	O	8-Fluoroguanine	OH	Cl
CF_3	O-acyl	O	5-Fluorocytosine	OH	Cl
CF_3	O-acyl	O	8-Fluoroadenine	OH	Cl
CF_3	O-acyl	O	2-Fluoroadenine	OH	Cl
CF_3	O-acyl	O	2,8-Difluoroadenine	OH	Cl
CF_3	O-acyl	O	2-Fluorohypoxanthine	OH	Cl
CF_3	O-acyl	O	8-Fluorohypoxanthine	OH	Cl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	Cl
CF_3	O-acyl	O	2-Aminoadenine	OH	Cl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	Cl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	Cl
CF_3	O-acyl	O	2-Aminohypoxanthine	OH	Cl
CF_3	O-acyl	O	2-N-acetylguanine	OH	Cl
CF_3	O-acyl	O	4-N-acetylcytosine	OH	Cl
CF_3	O-acyl	O	6-N-acetyladenine	OH	Cl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	Cl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	Cl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	Cl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	Cl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CF_3	O-acyl	O	2-N-acetylaminoadenine	OH	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	Cl
CF_3	O-acyl	O	Thymine	H	Cl
CF_3	O-acyl	O	Uracil	H	Cl
CF_3	O-acyl	O	Guanine	H	Cl
CF_3	O-acyl	O	Cytosine	H	Cl
CF_3	O-acyl	O	Adenine	H	Cl
CF_3	O-acyl	O	Hypoxanthine	H	Cl
CF_3	O-acyl	O	5-Fluorouracil	H	Cl
CF_3	O-acyl	O	8-Fluoroguanine	H	Cl
CF_3	O-acyl	O	5-Fluorocytosine	H	Cl
CF_3	O-acyl	O	8-Fluoroadenine	H	Cl
CF_3	O-acyl	O	2-Fluoroadenine	H	Cl
CF_3	O-acyl	O	2,8-Difluoroadenine	H	Cl
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	Cl
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	Cl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	Cl
CF_3	O-acyl	O	2-Aminoadenine	H	Cl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	Cl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	Cl
CF_3	O-acyl	O	2-Aminohypoxanthine	H	Cl
CF_3	O-acyl	O	2-N-acetylguanine	H	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	4-N-acetylcytosine	H	Cl
CF_3	O-acyl	O	6-N-acetyladenine	H	Cl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	Cl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	Cl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	Cl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	Cl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	Cl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	Cl
CF_3	O-acyl	O	Thymine	O-amino acid	Cl
CF_3	O-acyl	O	Uracil	O-amino acid	Cl
CF_3	O-acyl	O	Guanine	O-amino acid	Cl
CF_3	O-acyl	O	Cytosine	O-amino acid	Cl
CF_3	O-acyl	O	Adenine	O-amino acid	Cl
CF_3	O-acyl	O	Hypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	5-Fluorouracil	O-amino acid	Cl
CF_3	O-acyl	O	8-Fluoroguanine	O-amino acid	Cl
CF_3	O-acyl	O	5-Fluorocytosine	O-amino acid	Cl
CF_3	O-acyl	O	8-Fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-Fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	2-Aminoadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	2-N-acetylguanine	O-amino acid	Cl
CF_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	Cl
CF_3	O-acyl	O	6-N-acetyladenine	O-amino acid	Cl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	O	Thymine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	Uracil	H	H
CF_3	O-acyl	O	Guanine	H	H
CF_3	O-acyl	O	Cytosine	H	H
CF_3	O-acyl	O	Adenine	H	H
CF_3	O-acyl	O	Hypoxanthine	H	H
CF_3	O-acyl	O	5-Fluorouracil	H	H
CF_3	O-acyl	O	8-Fluoroguanine	H	H
CF_3	O-acyl	O	5-Fluorocytosine	H	H
CF_3	O-acyl	O	8-Fluoroadenine	H	H
CF_3	O-acyl	O	2-Fluoroadenine	H	H
CF_3	O-acyl	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	O	2-Aminoadenine	H	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	O	2-N-acetylguanine	H	H
CF_3	O-acyl	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	O	6-N-acetyladenine	H	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	O	Thymine	O-amino acid	H
CF_3	O-acyl	O	Uracil	O-amino acid	H
CF_3	O-acyl	O	Guanine	O-amino acid	H
CF_3	O-acyl	O	Cytosine	O-amino acid	H
CF_3	O-acyl	O	Adenine	O-amino acid	H
CF_3	O-acyl	O	Hypoxanthine	O-amino acid	H
CF_3	O-acyl	O	5-Fluorouracil	O-amino acid	H
CF_3	O-acyl	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-acyl	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-acyl	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-acyl	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-amino acid	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	2-Aminoadenine	O-amino acid	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-acyl	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	Thymine	O-acyl	H
CF_3	O-acyl	O	Uracil	O-acyl	H
CF_3	O-acyl	O	Guanine	O-acyl	H
CF_3	O-acyl	O	Cytosine	O-acyl	H
CF_3	O-acyl	O	Adenine	O-acyl	H
CF_3	O-acyl	O	Hypoxanthine	O-acyl	H
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	Thymine	OH	H
CF_3	O-acyl	O	Uracil	OH	H
CF_3	O-acyl	O	Guanine	OH	H
CF_3	O-acyl	O	Cytosine	OH	H
CF_3	O-acyl	O	Adenine	OH	H
CF_3	O-acyl	O	Hypoxanthine	OH	H
CF_3	O-acyl	O	5-Fluorouracil	OH	H
CF_3	O-acyl	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	O	2-Aminoadenine	OH	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	O	Thymine	H	OH
CF_3	O-acyl	O	Uracil	H	OH
CF_3	O-acyl	O	Guanine	H	OH
CF_3	O-acyl	O	Cytosine	H	OH
CF_3	O-acyl	O	Adenine	H	OH
CF_3	O-acyl	O	Hypoxanthine	H	OH
CF_3	O-acyl	O	5-Fluorouracil	H	OH
CF_3	O-acyl	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	O	8-Fluoroadenine	H	OH

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	O	2-Aminoadenine	H	OH
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	O	Thymine	H	F
CF_3	O-amino acid	O	Uracil	H	F
CF_3	O-amino acid	O	Guanine	H	F
CF_3	O-amino acid	O	Cytosine	H	F
CF_3	O-amino acid	O	Adenine	H	F
CF_3	O-amino acid	O	Hypoxanthine	H	F
CF_3	O-amino acid	O	5-Fluorouracil	H	F
CF_3	O-amino acid	O	8-Fluoroguanine	H	F
CF_3	O-amino acid	O	5-Fluorocytosine	H	F
CF_3	O-amino acid	O	8-Fluoroadenine	H	F
CF_3	O-amino acid	O	2-Fluoroadenine	H	F
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	F
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	F
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	F
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	F
CF_3	O-amino acid	O	2-Aminoadenine	H	F
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	F
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	F
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	F
CF_3	O-amino acid	O	2-N-acetylguanine	H	F
CF_3	O-amino acid	O	4-N-acetylcytosine	H	F
CF_3	O-amino acid	O	6-N-acetyladenine	H	F
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	F
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	F
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	F
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	F
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	F
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	F
CF_3	O-amino acid	O	Thymine	O-amino acid	F
CF_3	O-amino acid	O	Uracil	O-amino acid	F
CF_3	O-amino acid	O	Guanine	O-amino acid	F
CF_3	O-amino acid	O	Cytosine	O-amino acid	F
CF_3	O-amino acid	O	Adenine	O-amino acid	F
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	F
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	F
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	F
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	F
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	F
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	F
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	F
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	F
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	F
CF_3	O-amino acid	O	Thymine	O-acyl	F
CF_3	O-amino acid	O	Uracil	O-acyl	F
CF_3	O-amino acid	O	Guanine	O-acyl	F
CF_3	O-amino acid	O	Cytosine	O-acyl	F
CF_3	O-amino acid	O	Adenine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	Hypoxanthine	O-acyl	F
CF_3	O-amino acid	O	5-Fluorouracil	O-acyl	F
CF_3	O-amino acid	O	8-Fluoroguanine	O-acyl	F
CF_3	O-amino acid	O	5-Fluorocytosine	O-acyl	F
CF_3	O-amino acid	O	8-Fluoroadenine	O-acyl	F
CF_3	O-amino acid	O	2-Fluoroadenine	O-acyl	F
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	F
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	2-Aminoadenine	O-acyl	F
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	F
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	2-N-acetylguanine	O-acyl	F
CF_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	F
CF_3	O-amino acid	O	6-N-acetyladenine	O-acyl	F
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	F
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	F
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	F
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	F
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	F
CF_3	O-amino acid	O	Thymine	OH	F
CF_3	O-amino acid	O	Uracil	OH	F
CF_3	O-amino acid	O	Guanine	OH	F
CF_3	O-amino acid	O	Cytosine	OH	F
CF_3	O-amino acid	O	Adenine	OH	F
CF_3	O-amino acid	O	Hypoxanthine	OH	F
CF_3	O-amino acid	O	5-Fluorouracil	OH	F
CF_3	O-amino acid	O	8-Fluoroguanine	OH	F
CF_3	O-amino acid	O	5-Fluorocytosine	OH	F
CF_3	O-amino acid	O	8-Fluoroadenine	OH	F
CF_3	O-amino acid	O	2-Fluoroadenine	OH	F
CF_3	O-amino acid	O	2,8-Difluoroadenine	OH	F
CF_3	O-amino acid	O	2-Fluorohypoxanthine	OH	F
CF_3	O-amino acid	O	8-Fluorohypoxanthine	OH	F
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	F
CF_3	O-amino acid	O	2-Aminoadenine	OH	F
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	F
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	F
CF_3	O-amino acid	O	2-Aminohypoxanthine	OH	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	2-N-acetylguanine	OH	F
CF_3	O-amino acid	O	4-N-acetylcytosine	OH	F
CF_3	O-amino acid	O	6-N-acetyladenine	OH	F
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	F
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	F
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	F
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	F
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	F
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CF_3	O-amino acid	O	2-N-acetylaminoadenine	OH	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	F
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	F
CF_3	O-amino acid	O	Thymine	H	Br
CF_3	O-amino acid	O	Uracil	H	Br
CF_3	O-amino acid	O	Guanine	H	Br
CF_3	O-amino acid	O	Cytosine	H	Br
CF_3	O-amino acid	O	Adenine	H	Br
CF_3	O-amino acid	O	Hypoxanthine	H	Br
CF_3	O-amino acid	O	5-Fluorouracil	H	Br
CF_3	O-amino acid	O	8-Fluoroguanine	H	Br
CF_3	O-amino acid	O	5-Fluorocytosine	H	Br
CF_3	O-amino acid	O	8-Fluoroadenine	H	Br
CF_3	O-amino acid	O	2-Fluoroadenine	H	Br
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	Br
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	Br
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	Br
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	Br
CF_3	O-amino acid	O	2-Aminoadenine	H	Br
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	Br
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	Br
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	Br
CF_3	O-amino acid	O	2-N-acetylguanine	H	Br
CF_3	O-amino acid	O	4-N-acetylcytosine	H	Br
CF_3	O-amino acid	O	6-N-acetyladenine	H	Br
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	Br
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	Br
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	Br
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	Br
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	Br
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	Thymine	O-amino acid	Br
CF_3	O-amino acid	O	Uracil	O-amino acid	Br
CF_3	O-amino acid	O	Guanine	O-amino acid	Br
CF_3	O-amino acid	O	Cytosine	O-amino acid	Br
CF_3	O-amino acid	O	Adenine	O-amino acid	Br
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	Br
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	Br
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	Br
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	Br
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	Br
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	Br
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	O	Thymine	O-acyl	Br
CF_3	O-amino acid	O	Uracil	O-acyl	Br
CF_3	O-amino acid	O	Guanine	O-acyl	Br
CF_3	O-amino acid	O	Cytosine	O-acyl	Br
CF_3	O-amino acid	O	Adenine	O-acyl	Br
CF_3	O-amino acid	O	Hypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	5-Fluorouracil	O-acyl	Br
CF_3	O-amino acid	O	8-Fluoroguanine	O-acyl	Br
CF_3	O-amino acid	O	5-Fluorocytosine	O-acyl	Br
CF_3	O-amino acid	O	8-Fluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	2-Fluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	2-Aminoadenine	O-acyl	Br
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	2-N-acetylguanine	O-acyl	Br
CF_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	Br
CF_3	O-amino acid	O	6-N-acetyladenine	O-acyl	Br
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	Br
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	Br
CF_3	O-amino acid	O	Thymine	OH	Br
CF_3	O-amino acid	O	Uracil	OH	Br
CF_3	O-amino acid	O	Guanine	OH	Br
CF_3	O-amino acid	O	Cytosine	OH	Br
CF_3	O-amino acid	O	Adenine	OH	Br
CF_3	O-amino acid	O	Hypoxanthine	OH	Br
CF_3	O-amino acid	O	5-Fluorouracil	OH	Br
CF_3	O-amino acid	O	8-Fluoroguanine	OH	Br
CF_3	O-amino acid	O	5-Fluorocytosine	OH	Br
CF_3	O-amino acid	O	8-Fluoroadenine	OH	Br
CF_3	O-amino acid	O	2-Fluoroadenine	OH	Br
CF_3	O-amino acid	O	2,8-Difluoroadenine	OH	Br
CF_3	O-amino acid	O	2-Fluorohypoxanthine	OH	Br
CF_3	O-amino acid	O	8-Fluorohypoxanthine	OH	Br
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	Br
CF_3	O-amino acid	O	2-Aminoadenine	OH	Br
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	Br
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	Br
CF_3	O-amino acid	O	2-Aminohypoxanthine	OH	Br
CF_3	O-amino acid	O	2-N-acetylguanine	OH	Br
CF_3	O-amino acid	O	4-N-acetylcytosine	OH	Br
CF_3	O-amino acid	O	6-N-acetyladenine	OH	Br
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	Br
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	Br
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	Br
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	Br
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	Br
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	2-N-acetylaminoadenine	OH	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	Br
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	Br
CF_3	O-amino acid	O	Thymine	H	Cl
CF_3	O-amino acid	O	Uracil	H	Cl
CF_3	O-amino acid	O	Guanine	H	Cl
CF_3	O-amino acid	O	Cytosine	H	Cl
CF_3	O-amino acid	O	Adenine	H	Cl
CF_3	O-amino acid	O	Hypoxanthine	H	Cl
CF_3	O-amino acid	O	5-Fluorouracil	H	Cl
CF_3	O-amino acid	O	8-Fluoroguanine	H	Cl
CF_3	O-amino acid	O	5-Fluorocytosine	H	Cl
CF_3	O-amino acid	O	8-Fluoroadenine	H	Cl
CF_3	O-amino acid	O	2-Fluoroadenine	H	Cl
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	Cl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	Cl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	Cl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	Cl
CF_3	O-amino acid	O	2-Aminoadenine	H	Cl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	Cl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	Cl
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	Cl
CF_3	O-amino acid	O	2-N-acetylguanine	H	Cl
CF_3	O-amino acid	O	4-N-acetylcytosine	H	Cl
CF_3	O-amino acid	O	6-N-acetyladenine	H	Cl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	Cl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	Cl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	Cl
CF_3	O-amino acid	O	Thymine	O-amino acid	Cl
CF_3	O-amino acid	O	Uracil	O-amino acid	Cl
CF_3	O-amino acid	O	Guanine	O-amino acid	Cl
CF_3	O-amino acid	O	Cytosine	O-amino acid	Cl
CF_3	O-amino acid	O	Adenine	O-amino acid	Cl
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	Cl
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	Cl
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	Cl
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	Cl
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	O	Thymine	O-acyl	Cl
CF_3	O-amino acid	O	Uracil	O-acyl	Cl
CF_3	O-amino acid	O	Guanine	O-acyl	Cl
CF_3	O-amino acid	O	Cytosine	O-acyl	Cl
CF_3	O-amino acid	O	Adenine	O-acyl	Cl
CF_3	O-amino acid	O	Hypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	5-Fluorouracil	O-acyl	Cl
CF_3	O-amino acid	O	8-Fluoroguanine	O-acyl	Cl
CF_3	O-amino acid	O	5-Fluorocytosine	O-acyl	Cl
CF_3	O-amino acid	O	8-Fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-Fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	2-Aminoadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	2-N-acetylguanine	O-acyl	Cl
CF_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	Cl
CF_3	O-amino acid	O	6-N-acetyladenine	O-acyl	Cl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	O	Thymine	OH	Cl
CF_3	O-amino acid	O	Uracil	OH	Cl
CF_3	O-amino acid	O	Guanine	OH	Cl
CF_3	O-amino acid	O	Cytosine	OH	Cl
CF_3	O-amino acid	O	Adenine	OH	Cl
CF_3	O-amino acid	O	Hypoxanthine	OH	Cl
CF_3	O-amino acid	O	5-Fluorouracil	OH	Cl
CF_3	O-amino acid	O	8-Fluoroguanine	OH	Cl
CF_3	O-amino acid	O	5-Fluorocytosine	OH	Cl
CF_3	O-amino acid	O	8-Fluoroadenine	OH	Cl
CF_3	O-amino acid	O	2-Fluoroadenine	OH	Cl
CF_3	O-amino acid	O	2,8-Difluoroadenine	OH	Cl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	Cl
CF_3	O-amino acid	O	2-Aminoadenine	OH	Cl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	Cl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	O	2-Aminohypoxanthine	OH	Cl
CF_3	O-amino acid	O	2-N-acetylguanine	OH	Cl
CF_3	O-amino acid	O	4-N-acetylcytosine	OH	Cl
CF_3	O-amino acid	O	6-N-acetyladenine	OH	Cl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	Cl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	Cl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	Cl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	OH	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	Cl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	Cl
CF_3	O-amino acid	O	Thymine	H	H
CF_3	O-amino acid	O	Uracil	H	H
CF_3	O-amino acid	O	Guanine	H	H
CF_3	O-amino acid	O	Cytosine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	Adenine	H	H
CF_3	O-amino acid	O	Hypoxanthine	H	H
CF_3	O-amino acid	O	5-Fluorouracil	H	H
CF_3	O-amino acid	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	O	2-Aminoadenine	H	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	O	Thymine	O-amino acid	H
CF_3	O-amino acid	O	Uracil	O-amino acid	H
CF_3	O-amino acid	O	Guanine	O-amino acid	H
CF_3	O-amino acid	O	Cytosine	O-amino acid	H
CF_3	O-amino acid	O	Adenine	O-amino acid	H
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	Thymine	O-acyl	H
CF_3	O-amino acid	O	Uracil	O-acyl	H
CF_3	O-amino acid	O	Guanine	O-acyl	H
CF_3	O-amino acid	O	Cytosine	O-acyl	H
CF_3	O-amino acid	O	Adenine	O-acyl	H
CF_3	O-amino acid	O	Hypoxanthine	O-acyl	H
CF_3	O-amino acid	O	5-Fluorouracil	O-acyl	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-acyl	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-acyl	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-acyl	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-acyl	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	2-Aminoadenine	O-acyl	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	2-N-acetylguanine	O-acyl	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-acyl	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-acyl	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	Thymine	OH	H
CF_3	O-amino acid	O	Uracil	OH	H
CF_3	O-amino acid	O	Guanine	OH	H
CF_3	O-amino acid	O	Cytosine	OH	H
CF_3	O-amino acid	O	Adenine	OH	H
CF_3	O-amino acid	O	Hypoxanthine	OH	H
CF_3	O-amino acid	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	O	Thymine	H	OH
CF_3	O-amino acid	O	Uracil	H	OH
CF_3	O-amino acid	O	Guanine	H	OH
CF_3	O-amino acid	O	Cytosine	H	OH
CF_3	O-amino acid	O	Adenine	H	OH
CF_3	O-amino acid	O	Hypoxanthine	H	OH
CF_3	O-amino acid	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	OH

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	OH	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	OH	O	Thymine	O-amino acid	F
CF_3	OH	O	Uracil	O-amino acid	F
CF_3	OH	O	Guanine	O-amino acid	F
CF_3	OH	O	Cytosine	O-amino acid	F
CF_3	OH	O	Adenine	O-amino acid	F
CF_3	OH	O	Hypoxanthine	O-amino acid	F
CF_3	OH	O	5-Fluorouracil	O-amino acid	F
CF_3	OH	O	8-Fluoroguanine	O-amino acid	F
CF_3	OH	O	5-Fluorocytosine	O-amino acid	F
CF_3	OH	O	8-Fluoroadenine	O-amino acid	F
CF_3	OH	O	2-Fluoroadenine	O-amino acid	F
CF_3	OH	O	2,8-Difluoroadenine	O-amino acid	F
CF_3	OH	O	2-Fluorohypoxanthine	O-amino acid	F
CF_3	OH	O	8-Fluorohypoxanthine	O-amino acid	F
CF_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	F
CF_3	OH	O	2-Aminoadenine	O-amino acid	F
CF_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	F
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CF_3	OH	O	2-Aminohypoxanthine	O-amino acid	F
CF_3	OH	O	2-N-acetylguanine	O-amino acid	F
CF_3	OH	O	4-N-acetylcytosine	O-amino acid	F
CF_3	OH	O	6-N-acetyladenine	O-amino acid	F
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CF_3	OH	O	2-N-acetylaminoadenine	O-amino acid	F
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	F
CF_3	OH	O	Thymine	O-acyl	F
CF_3	OH	O	Uracil	O-acyl	F
CF_3	OH	O	Guanine	O-acyl	F
CF_3	OH	O	Cytosine	O-acyl	F
CF_3	OH	O	Adenine	O-acyl	F
CF_3	OH	O	Hypoxanthine	O-acyl	F
CF_3	OH	O	5-Fluorouracil	O-acyl	F
CF_3	OH	O	8-Fluoroguanine	O-acyl	F
CF_3	OH	O	5-Fluorocytosine	O-acyl	F
CF_3	OH	O	8-Fluoroadenine	O-acyl	F
CF_3	OH	O	2-Fluoroadenine	O-acyl	F
CF_3	OH	O	2,8-Difluoroadenine	O-acyl	F
CF_3	OH	O	2-Fluorohypoxanthine	O-acyl	F
CF_3	OH	O	8-Fluorohypoxanthine	O-acyl	F
CF_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	F
CF_3	OH	O	2-Aminoadenine	O-acyl	F
CF_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	F
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	F
CF_3	OH	O	2-Aminohypoxanthine	O-acyl	F
CF_3	OH	O	2-N-acetylguanine	O-acyl	F
CF_3	OH	O	4-N-acetylcytosine	O-acyl	F
CF_3	OH	O	6-N-acetyladenine	O-acyl	F
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	F
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	F
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	F
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	F
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CF_3	OH	O	2-N-acetylaminoadenine	O-acyl	F
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-acyl	F
CF_3	OH	O	Thymine	O-amino acid	Br
CF_3	OH	O	Uracil	O-amino acid	Br
CF_3	OH	O	Guanine	O-amino acid	Br
CF_3	OH	O	Cytosine	O-amino acid	Br
CF_3	OH	O	Adenine	O-amino acid	Br
CF_3	OH	O	Hypoxanthine	O-amino acid	Br
CF_3	OH	O	5-Fluorouracil	O-amino acid	Br
CF_3	OH	O	8-Fluoroguanine	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	O	5-Fluorocytosine	O-amino acid	Br
CF_3	OH	O	8-Fluoroadenine	O-amino acid	Br
CF_3	OH	O	2-Fluoroadenine	O-amino acid	Br
CF_3	OH	O	2,8-Difluoroadenine	O-amino acid	Br
CF_3	OH	O	2-Fluorohypoxanthine	O-amino acid	Br
CF_3	OH	O	8-Fluorohypoxanthine	O-amino acid	Br
CF_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	Br
CF_3	OH	O	2-Aminoadenine	O-amino acid	Br
CF_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	Br
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	OH	O	2-Aminohypoxanthine	O-amino acid	Br
CF_3	OH	O	2-N-acetylguanine	O-amino acid	Br
CF_3	OH	O	4-N-acetylcytosine	O-amino acid	Br
CF_3	OH	O	6-N-acetyladenine	O-amino acid	Br
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CF_3	OH	O	2-N-acetylaminoadenine	O-amino acid	Br
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	Br
CF_3	OH	O	Thymine	O-acyl	Br
CF_3	OH	O	Uracil	O-acyl	Br
CF_3	OH	O	Guanine	O-acyl	Br
CF_3	OH	O	Cytosine	O-acyl	Br
CF_3	OH	O	Adenine	O-acyl	Br
CF_3	OH	O	Hypoxanthine	O-acyl	Br
CF_3	OH	O	5-Fluorouracil	O-acyl	Br
CF_3	OH	O	8-Fluoroguanine	O-acyl	Br
CF_3	OH	O	5-Fluorocytosine	O-acyl	Br
CF_3	OH	O	8-Fluoroadenine	O-acyl	Br
CF_3	OH	O	2-Fluoroadenine	O-acyl	Br
CF_3	OH	O	2,8-Difluoroadenine	O-acyl	Br
CF_3	OH	O	2-Fluorohypoxanthine	O-acyl	Br
CF_3	OH	O	8-Fluorohypoxanthine	O-acyl	Br
CF_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	Br
CF_3	OH	O	2-Aminoadenine	O-acyl	Br
CF_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	Br
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CF_3	OH	O	2-Aminohypoxanthine	O-acyl	Br
CF_3	OH	O	2-N-acetylguanine	O-acyl	Br
CF_3	OH	O	4-N-acetylcytosine	O-acyl	Br
CF_3	OH	O	6-N-acetyladenine	O-acyl	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	Br
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CF_3	OH	O	2-N-acetylaminoadenine	O-acyl	Br
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-acyl	Br
CF_3	OH	O	Thymine	O-amino acid	Cl
CF_3	OH	O	Uracil	O-amino acid	Cl
CF_3	OH	O	Guanine	O-amino acid	Cl
CF_3	OH	O	Cytosine	O-amino acid	Cl
CF_3	OH	O	Adenine	O-amino acid	Cl
CF_3	OH	O	Hypoxanthine	O-amino acid	Cl
CF_3	OH	O	5-Fluorouracil	O-amino acid	Cl
CF_3	OH	O	8-Fluoroguanine	O-amino acid	Cl
CF_3	OH	O	5-Fluorocytosine	O-amino acid	Cl
CF_3	OH	O	8-Fluoroadenine	O-amino acid	Cl
CF_3	OH	O	2-Fluoroadenine	O-amino acid	Cl
CF_3	OH	O	2,8-Difluoroadenine	O-amino acid	Cl
CF_3	OH	O	2-Fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	O	8-Fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	Cl
CF_3	OH	O	2-Aminoadenine	O-amino acid	Cl
CF_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	Cl
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	O	2-Aminohypoxanthine	O-amino acid	Cl
CF_3	OH	O	2-N-acetylguanine	O-amino acid	Cl
CF_3	OH	O	4-N-acetylcytosine	O-amino acid	Cl
CF_3	OH	O	6-N-acetyladenine	O-amino acid	Cl
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CF_3	OH	O	2-N-acetylaminoadenine	O-amino acid	Cl
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CF_3	OH	O	Thymine	O-acyl	Cl
CF_3	OH	O	Uracil	O-acyl	Cl
CF_3	OH	O	Guanine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	O	Cytosine	O-acyl	Cl
CF_3	OH	O	Adenine	O-acyl	Cl
CF_3	OH	O	Hypoxanthine	O-acyl	Cl
CF_3	OH	O	5-Fluorouracil	O-acyl	Cl
CF_3	OH	O	8-Fluoroguanine	O-acyl	Cl
CF_3	OH	O	5-Fluorocytosine	O-acyl	Cl
CF_3	OH	O	8-Fluoroadenine	O-acyl	Cl
CF_3	OH	O	2-Fluoroadenine	O-acyl	Cl
CF_3	OH	O	2,8-Difluoroadenine	O-acyl	Cl
CF_3	OH	O	2-Fluorohypoxanthine	O-acyl	Cl
CF_3	OH	O	8-Fluorohypoxanthine	O-acyl	Cl
CF_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	Cl
CF_3	OH	O	2-Aminoadenine	O-acyl	Cl
CF_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	Cl
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	OH	O	2-Aminohypoxanthine	O-acyl	Cl
CF_3	OH	O	2-N-acetylguanine	O-acyl	Cl
CF_3	OH	O	4-N-acetylcytosine	O-acyl	Cl
CF_3	OH	O	6-N-acetyladenine	O-acyl	Cl
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CF_3	OH	O	2-N-acetylaminoadenine	O-acyl	Cl
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-acyl	Cl
CF_3	OH	O	Thymine	O-amino acid	H
CF_3	OH	O	Uracil	O-amino acid	H
CF_3	OH	O	Guanine	O-amino acid	H
CF_3	OH	O	Cytosine	O-amino acid	H
CF_3	OH	O	Adenine	O-amino acid	H
CF_3	OH	O	Hypoxanthine	O-amino acid	H
CF_3	OH	O	5-Fluorouracil	O-amino acid	H
CF_3	OH	O	8-Fluoroguanine	O-amino acid	H
CF_3	OH	O	5-Fluorocytosine	O-amino acid	H
CF_3	OH	O	8-Fluoroadenine	O-amino acid	H
CF_3	OH	O	2-Fluoroadenine	O-amino acid	H
CF_3	OH	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	OH	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	OH	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	OH	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	OH	O	2-Aminoadenine	O-amino acid	H
CF_3	OH	O	2-Amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	OH	O	2-Aminohypoxanthine	O-amino acid	H
CF_3	OH	O	2-N-acetylguanine	O-amino acid	H
CF_3	OH	O	4-N-acetylcytosine	O-amino acid	H
CF_3	OH	O	6-N-acetyladenine	O-amino acid	H
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	OH	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	OH	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	OH	O	Thymine	O-acyl	H
CF_3	OH	O	Uracil	O-acyl	H
CF_3	OH	O	Guanine	O-acyl	H
CF_3	OH	O	Cytosine	O-acyl	H
CF_3	OH	O	Adenine	O-acyl	H
CF_3	OH	O	Hypoxanthine	O-acyl	H
CF_3	OH	O	5-Fluorouracil	O-acyl	H
CF_3	OH	O	8-Fluoroguanine	O-acyl	H
CF_3	OH	O	5-Fluorocytosine	O-acyl	H
CF_3	OH	O	8-Fluoroadenine	O-acyl	H
CF_3	OH	O	2-Fluoroadenine	O-acyl	H
CF_3	OH	O	2,8-Difluoroadenine	O-acyl	H
CF_3	OH	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	OH	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	OH	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	OH	O	2-Aminoadenine	O-acyl	H
CF_3	OH	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	OH	O	2-Aminohypoxanthine	O-acyl	H
CF_3	OH	O	2-N-acetylguanine	O-acyl	H
CF_3	OH	O	4-N-acetylcytosine	O-acyl	H
CF_3	OH	O	6-N-acetyladenine	O-acyl	H
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	OH	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	OH	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	OH	O	2-N-acetylamino-8-	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
			fluorohypoxanthine		
CF_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	H	O	Thymine	O-amino acid	O-amino acid
CF_3	H	O	Uracil	O-amino acid	O-amino acid
CF_3	H	O	Guanine	O-amino acid	O-amino acid
CF_3	H	O	Cytosine	O-amino acid	O-amino acid
CF_3	H	O	Adenine	O-amino acid	O-amino acid
CF_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	Thymine	O-acyl	O-acyl
CF_3	H	O	Uracil	O-acyl	O-acyl
CF_3	H	O	Guanine	O-acyl	O-acyl
CF_3	H	O	Cytosine	O-acyl	O-acyl
CF_3	H	O	Adenine	O-acyl	O-acyl
CF_3	H	O	Hypoxanthine	O-acyl	O-acyl
CF_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	Thymine	O-amino acid	O-amino acid
CF_3	H	O	Uracil	O-amino acid	O-amino acid
CF_3	H	O	Guanine	O-amino acid	O-amino acid
CF_3	H	O	Cytosine	O-amino acid	O-amino acid
CF_3	H	O	Adenine	O-amino acid	O-amino acid
CF_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	Thymine	O-acyl	O-acyl
CF_3	H	O	Uracil	O-acyl	O-acyl
CF_3	H	O	Guanine	O-acyl	O-acyl
CF_3	H	O	Cytosine	O-acyl	O-acyl
CF_3	H	O	Adenine	O-acyl	O-acyl
CF_3	H	O	Hypoxanthine	O-acyl	O-acyl
CF_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	Thymine	O-amino acid	O-amino acid
CF_3	H	O	Uracil	O-amino acid	O-amino acid
CF_3	H	O	Guanine	O-amino acid	O-amino acid
CF_3	H	O	Cytosine	O-amino acid	O-amino acid
CF_3	H	O	Adenine	O-amino acid	O-amino acid
CF_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	Thymine	O-acyl	O-acyl
CF_3	H	O	Uracil	O-acyl	O-acyl
CF_3	H	O	Guanine	O-acyl	O-acyl
CF_3	H	O	Cytosine	O-acyl	O-acyl
CF_3	H	O	Adenine	O-acyl	O-acyl
CF_3	H	O	Hypoxanthine	O-acyl	O-acyl
CF_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	Thymine	O-amino acid	O-amino acid
CF_3	H	O	Uracil	O-amino acid	O-amino acid
CF_3	H	O	Guanine	O-amino acid	O-amino acid
CF_3	H	O	Cytosine	O-amino acid	O-amino acid
CF_3	H	O	Adenine	O-amino acid	O-amino acid
CF_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	Thymine	O-acyl	O-acyl
CF_3	H	O	Uracil	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	Guanine	O-acyl	O-acyl
CF_3	H	O	Cytosine	O-acyl	O-acyl
CF_3	H	O	Adenine	O-acyl	O-acyl
CF_3	H	O	Hypoxanthine	O-acyl	O-acyl
CF_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	Thymine	O-amino acid	O-amino acid
CF_3	H	O	Uracil	O-amino acid	O-amino acid
CF_3	H	O	Guanine	O-amino acid	O-amino acid
CF_3	H	O	Cytosine	O-amino acid	O-amino acid
CF_3	H	O	Adenine	O-amino acid	O-amino acid
CF_3	H	O	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminoadenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	O	Thymine	O-acyl	O-acyl
CF_3	H	O	Uracil	O-acyl	O-acyl
CF_3	H	O	Guanine	O-acyl	O-acyl
CF_3	H	O	Cytosine	O-acyl	O-acyl
CF_3	H	O	Adenine	O-acyl	O-acyl
CF_3	H	O	Hypoxanthine	O-acyl	O-acyl
CF_3	H	O	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	O	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	O	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	O	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	O-acyl	S	Thymine	H	F
CF_3	O-acyl	S	Uracil	H	F
CF_3	O-acyl	S	Guanine	H	F
CF_3	O-acyl	S	Cytosine	H	F
CF_3	O-acyl	S	Adenine	H	F
CF_3	O-acyl	S	Hypoxanthine	H	F
CF_3	O-acyl	S	5-Fluorouracil	H	F
CF_3	O-acyl	S	8-Fluoroguanine	H	F
CF_3	O-acyl	S	5-Fluorocytosine	H	F
CF_3	O-acyl	S	8-Fluoroadenine	H	F
CF_3	O-acyl	S	2-Fluoroadenine	H	F
CF_3	O-acyl	S	2,8-Difluoroadenine	H	F
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	F
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	F
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	F
CF_3	O-acyl	S	2-Aminoadenine	H	F
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	F
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	F
CF_3	O-acyl	S	2-Aminohypoxanthine	H	F
CF_3	O-acyl	S	2-N-acetylguanine	H	F
CF_3	O-acyl	S	4-N-acetylcytosine	H	F
CF_3	O-acyl	S	6-N-acetyladenine	H	F
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	F
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	F
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	F
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	F
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	F
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	F
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	F
CF_3	O-acyl	S	Thymine	O-amino acid	F
CF_3	O-acyl	S	Uracil	O-amino acid	F
CF_3	O-acyl	S	Guanine	O-amino acid	F
CF_3	O-acyl	S	Cytosine	O-amino acid	F
CF_3	O-acyl	S	Adenine	O-amino acid	F
CF_3	O-acyl	S	Hypoxanthine	O-amino acid	F
CF_3	O-acyl	S	5-Fluorouracil	O-amino acid	F
CF_3	O-acyl	S	8-Fluoroguanine	O-amino acid	F
CF_3	O-acyl	S	5-Fluorocytosine	O-amino acid	F
CF_3	O-acyl	S	8-Fluoroadenine	O-amino acid	F
CF_3	O-acyl	S	2-Fluoroadenine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	F
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	2-Aminoadenine	O-amino acid	F
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	F
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	2-N-acetylguanine	O-amino acid	F
CF_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	F
CF_3	O-acyl	S	6-N-acetyladenine	O-amino acid	F
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	F
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	F
CF_3	O-acyl	S	Thymine	O-acyl	F
CF_3	O-acyl	S	Uracil	O-acyl	F
CF_3	O-acyl	S	Guanine	O-acyl	F
CF_3	O-acyl	S	Cytosine	O-acyl	F
CF_3	O-acyl	S	Adenine	O-acyl	F
CF_3	O-acyl	S	Hypoxanthine	O-acyl	F
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	F
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	F
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	F
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	F
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	F
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	F
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	F
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	F
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	F
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	F
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	F
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	F
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	F
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	F
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	F
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	F
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	F
CF_3	O-acyl	S	Thymine	OH	F
CF_3	O-acyl	S	Uracil	OH	F
CF_3	O-acyl	S	Guanine	OH	F
CF_3	O-acyl	S	Cytosine	OH	F
CF_3	O-acyl	S	Adenine	OH	F
CF_3	O-acyl	S	Hypoxanthine	OH	F
CF_3	O-acyl	S	5-Fluorouracil	OH	F
CF_3	O-acyl	S	8-Fluoroguanine	OH	F
CF_3	O-acyl	S	5-Fluorocytosine	OH	F
CF_3	O-acyl	S	8-Fluoroadenine	OH	F
CF_3	O-acyl	S	2-Fluoroadenine	OH	F
CF_3	O-acyl	S	2,8-Difluoroadenine	OH	F
CF_3	O-acyl	S	2-Fluorohypoxanthine	OH	F
CF_3	O-acyl	S	8-Fluorohypoxanthine	OH	F
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	F
CF_3	O-acyl	S	2-Aminoadenine	OH	F
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	F
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	F
CF_3	O-acyl	S	2-Aminohypoxanthine	OH	F
CF_3	O-acyl	S	2-N-acetylguanine	OH	F
CF_3	O-acyl	S	4-N-acetylcytosine	OH	F
CF_3	O-acyl	S	6-N-acetyladenine	OH	F
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	F
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	F
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	F
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	F
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	F
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CF_3	O-acyl	S	2-N-acetylaminoadenine	OH	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	F
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	F
CF_3	O-acyl	S	Thymine	H	Br
CF_3	O-acyl	S	Uracil	H	Br
CF_3	O-acyl	S	Guanine	H	Br
CF_3	O-acyl	S	Cytosine	H	Br
CF_3	O-acyl	S	Adenine	H	Br
CF_3	O-acyl	S	Hypoxanthine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	5-Fluorouracil	H	Br
CF_3	O-acyl	S	8-Fluoroguanine	H	Br
CF_3	O-acyl	S	5-Fluorocytosine	H	Br
CF_3	O-acyl	S	8-Fluoroadenine	H	Br
CF_3	O-acyl	S	2-Fluoroadenine	H	Br
CF_3	O-acyl	S	2,8-Difluoroadenine	H	Br
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	Br
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	Br
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	Br
CF_3	O-acyl	S	2-Aminoadenine	H	Br
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	Br
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	Br
CF_3	O-acyl	S	2-Aminohypoxanthine	H	Br
CF_3	O-acyl	S	2-N-acetylguanine	H	Br
CF_3	O-acyl	S	4-N-acetylcytosine	H	Br
CF_3	O-acyl	S	6-N-acetyladenine	H	Br
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	Br
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	Br
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	Br
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	Br
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	Br
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	Br
CF_3	O-acyl	S	Thymine	O-amino acid	Br
CF_3	O-acyl	S	Uracil	O-amino acid	Br
CF_3	O-acyl	S	Guanine	O-amino acid	Br
CF_3	O-acyl	S	Cytosine	O-amino acid	Br
CF_3	O-acyl	S	Adenine	O-amino acid	Br
CF_3	O-acyl	S	Hypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	5-Fluorouracil	O-amino acid	Br
CF_3	O-acyl	S	8-Fluoroguanine	O-amino acid	Br
CF_3	O-acyl	S	5-Fluorocytosine	O-amino acid	Br
CF_3	O-acyl	S	8-Fluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	2-Fluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	2-Aminoadenine	O-amino acid	Br
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	2-N-acetylguanine	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	Br
CF_3	O-acyl	S	6-N-acetyladenine	O-amino acid	Br
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	Br
CF_3	O-acyl	S	Thymine	O-acyl	Br
CF_3	O-acyl	S	Uracil	O-acyl	Br
CF_3	O-acyl	S	Guanine	O-acyl	Br
CF_3	O-acyl	S	Cytosine	O-acyl	Br
CF_3	O-acyl	S	Adenine	O-acyl	Br
CF_3	O-acyl	S	Hypoxanthine	O-acyl	Br
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	Br
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	Br
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	Br
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	Br
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	Br
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	Br
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	Br
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	Br
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	Br
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	Br
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	Br
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	Br
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	Br
CF_3	O-acyl	S	Thymine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	Uracil	OH	Br
CF_3	O-acyl	S	Guanine	OH	Br
CF_3	O-acyl	S	Cytosine	OH	Br
CF_3	O-acyl	S	Adenine	OH	Br
CF_3	O-acyl	S	Hypoxanthine	OH	Br
CF_3	O-acyl	S	5-Fluorouracil	OH	Br
CF_3	O-acyl	S	8-Fluoroguanine	OH	Br
CF_3	O-acyl	S	5-Fluorocytosine	OH	Br
CF_3	O-acyl	S	8-Fluoroadenine	OH	Br
CF_3	O-acyl	S	2-Fluoroadenine	OH	Br
CF_3	O-acyl	S	2,8-Difluoroadenine	OH	Br
CF_3	O-acyl	S	2-Fluorohypoxanthine	OH	Br
CF_3	O-acyl	S	8-Fluorohypoxanthine	OH	Br
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	Br
CF_3	O-acyl	S	2-Aminoadenine	OH	Br
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	Br
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	Br
CF_3	O-acyl	S	2-Aminohypoxanthine	OH	Br
CF_3	O-acyl	S	2-N-acetylguanine	OH	Br
CF_3	O-acyl	S	4-N-acetylcytosine	OH	Br
CF_3	O-acyl	S	6-N-acetyladenine	OH	Br
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	Br
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	Br
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	Br
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	Br
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	Br
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CF_3	O-acyl	S	2-N-acetylaminoadenine	OH	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	Br
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	Br
CF_3	O-acyl	S	Thymine	O-acyl	Cl
CF_3	O-acyl	S	Uracil	O-acyl	Cl
CF_3	O-acyl	S	Guanine	O-acyl	Cl
CF_3	O-acyl	S	Cytosine	O-acyl	Cl
CF_3	O-acyl	S	Adenine	O-acyl	Cl
CF_3	O-acyl	S	Hypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	Cl
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	Cl
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	Cl
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	Cl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	Cl
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	Cl
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	Cl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	Cl
CF_3	O-acyl	S	Thymine	OH	Cl
CF_3	O-acyl	S	Uracil	OH	Cl
CF_3	O-acyl	S	Guanine	OH	Cl
CF_3	O-acyl	S	Cytosine	OH	Cl
CF_3	O-acyl	S	Adenine	OH	Cl
CF_3	O-acyl	S	Hypoxanthine	OH	Cl
CF_3	O-acyl	S	5-Fluorouracil	OH	Cl
CF_3	O-acyl	S	8-Fluoroguanine	OH	Cl
CF_3	O-acyl	S	5-Fluorocytosine	OH	Cl
CF_3	O-acyl	S	8-Fluoroadenine	OH	Cl
CF_3	O-acyl	S	2-Fluoroadenine	OH	Cl
CF_3	O-acyl	S	2,8-Difluoroadenine	OH	Cl
CF_3	O-acyl	S	2-Fluorohypoxanthine	OH	Cl
CF_3	O-acyl	S	8-Fluorohypoxanthine	OH	Cl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	Cl
CF_3	O-acyl	S	2-Aminoadenine	OH	Cl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	Cl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	Cl
CF_3	O-acyl	S	2-Aminohypoxanthine	OH	Cl
CF_3	O-acyl	S	2-N-acetylguanine	OH	Cl
CF_3	O-acyl	S	4-N-acetylcytosine	OH	Cl
CF_3	O-acyl	S	6-N-acetyladenine	OH	Cl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	Cl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	Cl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	Cl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	Cl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CF_3	O-acyl	S	2-N-acetylaminoadenine	OH	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	Cl
CF_3	O-acyl	S	Thymine	H	Cl
CF_3	O-acyl	S	Uracil	H	Cl
CF_3	O-acyl	S	Guanine	H	Cl
CF_3	O-acyl	S	Cytosine	H	Cl
CF_3	O-acyl	S	Adenine	H	Cl
CF_3	O-acyl	S	Hypoxanthine	H	Cl
CF_3	O-acyl	S	5-Fluorouracil	H	Cl
CF_3	O-acyl	S	8-Fluoroguanine	H	Cl
CF_3	O-acyl	S	5-Fluorocytosine	H	Cl
CF_3	O-acyl	S	8-Fluoroadenine	H	Cl
CF_3	O-acyl	S	2-Fluoroadenine	H	Cl
CF_3	O-acyl	S	2,8-Difluoroadenine	H	Cl
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	Cl
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	Cl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	Cl
CF_3	O-acyl	S	2-Aminoadenine	H	Cl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	Cl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	Cl
CF_3	O-acyl	S	2-Aminohypoxanthine	H	Cl
CF_3	O-acyl	S	2-N-acetylguanine	H	Cl
CF_3	O-acyl	S	4-N-acetylcytosine	H	Cl
CF_3	O-acyl	S	6-N-acetyladenine	H	Cl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	Cl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	Cl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	Cl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	Cl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	Cl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	Cl
CF_3	O-acyl	S	Thymine	O-amino acid	Cl
CF_3	O-acyl	S	Uracil	O-amino acid	Cl
CF_3	O-acyl	S	Guanine	O-amino acid	Cl
CF_3	O-acyl	S	Cytosine	O-amino acid	Cl
CF_3	O-acyl	S	Adenine	O-amino acid	Cl
CF_3	O-acyl	S	Hypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	5-Fluorouracil	O-amino acid	Cl
CF_3	O-acyl	S	8-Fluoroguanine	O-amino acid	Cl
CF_3	O-acyl	S	5-Fluorocytosine	O-amino acid	Cl
CF_3	O-acyl	S	8-Fluoroadenine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	2-Fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	2-Aminoadenine	O-amino acid	Cl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	2-N-acetylguanine	O-amino acid	Cl
CF_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	Cl
CF_3	O-acyl	S	6-N-acetyladenine	O-amino acid	Cl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CF_3	O-acyl	S	Thymine	H	H
CF_3	O-acyl	S	Uracil	H	H
CF_3	O-acyl	S	Guanine	H	H
CF_3	O-acyl	S	Cytosine	H	H
CF_3	O-acyl	S	Adenine	H	H
CF_3	O-acyl	S	Hypoxanthine	H	H
CF_3	O-acyl	S	5-Fluorouracil	H	H
CF_3	O-acyl	S	8-Fluoroguanine	H	H
CF_3	O-acyl	S	5-Fluorocytosine	H	H
CF_3	O-acyl	S	8-Fluoroadenine	H	H
CF_3	O-acyl	S	2-Fluoroadenine	H	H
CF_3	O-acyl	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	S	2-Aminoadenine	H	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	S	2-N-acetylguanine	H	H
CF_3	O-acyl	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	S	6-N-acetyladenine	H	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	S	Thymine	O-amino acid	H
CF_3	O-acyl	S	Uracil	O-amino acid	H
CF_3	O-acyl	S	Guanine	O-amino acid	H
CF_3	O-acyl	S	Cytosine	O-amino acid	H
CF_3	O-acyl	S	Adenine	O-amino acid	H
CF_3	O-acyl	S	Hypoxanthine	O-amino acid	H
CF_3	O-acyl	S	5-Fluorouracil	O-amino acid	H
CF_3	O-acyl	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-acyl	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-acyl	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-acyl	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	2-Aminoadenine	O-amino acid	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-acyl	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	Thymine	O-acyl	H
CF_3	O-acyl	S	Uracil	O-acyl	H
CF_3	O-acyl	S	Guanine	O-acyl	H
CF_3	O-acyl	S	Cytosine	O-acyl	H
CF_3	O-acyl	S	Adenine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	Hypoxanthine	O-acyl	H
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	Thymine	OH	H
CF_3	O-acyl	S	Uracil	OH	H
CF_3	O-acyl	S	Guanine	OH	H
CF_3	O-acyl	S	Cytosine	OH	H
CF_3	O-acyl	S	Adenine	OH	H
CF_3	O-acyl	S	Hypoxanthine	OH	H
CF_3	O-acyl	S	5-Fluorouracil	OH	H
CF_3	O-acyl	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	S	2-Aminoadenine	OH	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	S	2-Aminohypoxanthine	OH	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-acyl	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	S	Thymine	H	OH
CF_3	O-acyl	S	Uracil	H	OH
CF_3	O-acyl	S	Guanine	H	OH
CF_3	O-acyl	S	Cytosine	H	OH
CF_3	O-acyl	S	Adenine	H	OH
CF_3	O-acyl	S	Hypoxanthine	H	OH
CF_3	O-acyl	S	5-Fluorouracil	H	OH
CF_3	O-acyl	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	S	2-Aminoadenine	H	OH
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	OH

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	Thymine	H	F
CF_3	O-amino acid	S	Uracil	H	F
CF_3	O-amino acid	S	Guanine	H	F
CF_3	O-amino acid	S	Cytosine	H	F
CF_3	O-amino acid	S	Adenine	H	F
CF_3	O-amino acid	S	Hypoxanthine	H	F
CF_3	O-amino acid	S	5-Fluorouracil	H	F
CF_3	O-amino acid	S	8-Fluoroguanine	H	F
CF_3	O-amino acid	S	5-Fluorocytosine	H	F
CF_3	O-amino acid	S	8-Fluoroadenine	H	F
CF_3	O-amino acid	S	2-Fluoroadenine	H	F
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	F
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	F
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	F
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	F
CF_3	O-amino acid	S	2-Aminoadenine	H	F
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	F
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	F
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	F
CF_3	O-amino acid	S	2-N-acetylguanine	H	F
CF_3	O-amino acid	S	4-N-acetylcytosine	H	F
CF_3	O-amino acid	S	6-N-acetyladenine	H	F
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	F
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	F
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	F
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	F
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	F
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	F
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	F
CF_3	O-amino acid	S	Thymine	O-amino acid	F
CF_3	O-amino acid	S	Uracil	O-amino acid	F
CF_3	O-amino acid	S	Guanine	O-amino acid	F
CF_3	O-amino acid	S	Cytosine	O-amino acid	F
CF_3	O-amino acid	S	Adenine	O-amino acid	F
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	F
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	F
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	F
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	F
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	F
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	F
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	F
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	F
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	F
CF_3	O-amino acid	S	Thymine	O-acyl	F
CF_3	O-amino acid	S	Uracil	O-acyl	F
CF_3	O-amino acid	S	Guanine	O-acyl	F
CF_3	O-amino acid	S	Cytosine	O-acyl	F
CF_3	O-amino acid	S	Adenine	O-acyl	F
CF_3	O-amino acid	S	Hypoxanthine	O-acyl	F
CF_3	O-amino acid	S	5-Fluorouracil	O-acyl	F
CF_3	O-amino acid	S	8-Fluoroguanine	O-acyl	F
CF_3	O-amino acid	S	5-Fluorocytosine	O-acyl	F
CF_3	O-amino acid	S	8-Fluoroadenine	O-acyl	F
CF_3	O-amino acid	S	2-Fluoroadenine	O-acyl	F
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	F
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	2-Aminoadenine	O-acyl	F
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	F
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	2-N-acetylguanine	O-acyl	F
CF_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	F
CF_3	O-amino acid	S	6-N-acetyladenine	O-acyl	F
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	F
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	F
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	F
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	F
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	F
CF_3	O-amino acid	S	Thymine	OH	F
CF_3	O-amino acid	S	Uracil	OH	F
CF_3	O-amino acid	S	Guanine	OH	F
CF_3	O-amino acid	S	Cytosine	OH	F
CF_3	O-amino acid	S	Adenine	OH	F
CF_3	O-amino acid	S	Hypoxanthine	OH	F
CF_3	O-amino acid	S	5-Fluorouracil	OH	F
CF_3	O-amino acid	S	8-Fluoroguanine	OH	F
CF_3	O-amino acid	S	5-Fluorocytosine	OH	F
CF_3	O-amino acid	S	8-Fluoroadenine	OH	F
CF_3	O-amino acid	S	2-Fluoroadenine	OH	F
CF_3	O-amino acid	S	2,8-Difluoroadenine	OH	F
CF_3	O-amino acid	S	2-Fluorohypoxanthine	OH	F
CF_3	O-amino acid	S	8-Fluorohypoxanthine	OH	F
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	F
CF_3	O-amino acid	S	2-Aminoadenine	OH	F
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	F
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	F
CF_3	O-amino acid	S	2-Aminohypoxanthine	OH	F
CF_3	O-amino acid	S	2-N-acetylguanine	OH	F
CF_3	O-amino acid	S	4-N-acetylcytosine	OH	F
CF_3	O-amino acid	S	6-N-acetyladenine	OH	F
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	F
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	F
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	F
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	F
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	F
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CF_3	O-amino acid	S	2-N-acetylaminoadenine	OH	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	F
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	F
CF_3	O-amino acid	S	Thymine	H	Br
CF_3	O-amino acid	S	Uracil	H	Br
CF_3	O-amino acid	S	Guanine	H	Br
CF_3	O-amino acid	S	Cytosine	H	Br
CF_3	O-amino acid	S	Adenine	H	Br
CF_3	O-amino acid	S	Hypoxanthine	H	Br
CF_3	O-amino acid	S	5-Fluorouracil	H	Br
CF_3	O-amino acid	S	8-Fluoroguanine	H	Br
CF_3	O-amino acid	S	5-Fluorocytosine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	8-Fluoroadenine	H	Br
CF_3	O-amino acid	S	2-Fluoroadenine	H	Br
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	Br
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	Br
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	Br
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	Br
CF_3	O-amino acid	S	2-Aminoadenine	H	Br
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	Br
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	Br
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	Br
CF_3	O-amino acid	S	2-N-acetylguanine	H	Br
CF_3	O-amino acid	S	4-N-acetylcytosine	H	Br
CF_3	O-amino acid	S	6-N-acetyladenine	H	Br
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	Br
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	Br
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	Br
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	Br
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	Br
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	Br
CF_3	O-amino acid	S	Thymine	O-amino acid	Br
CF_3	O-amino acid	S	Uracil	O-amino acid	Br
CF_3	O-amino acid	S	Guanine	O-amino acid	Br
CF_3	O-amino acid	S	Cytosine	O-amino acid	Br
CF_3	O-amino acid	S	Adenine	O-amino acid	Br
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	Br
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	Br
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	Br
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	Br
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	Br
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	Br
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	Br
CF_3	O-amino acid	S	Thymine	O-acyl	Br
CF_3	O-amino acid	S	Uracil	O-acyl	Br
CF_3	O-amino acid	S	Guanine	O-acyl	Br
CF_3	O-amino acid	S	Cytosine	O-acyl	Br
CF_3	O-amino acid	S	Adenine	O-acyl	Br
CF_3	O-amino acid	S	Hypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	5-Fluorouracil	O-acyl	Br
CF_3	O-amino acid	S	8-Fluoroguanine	O-acyl	Br
CF_3	O-amino acid	S	5-Fluorocytosine	O-acyl	Br
CF_3	O-amino acid	S	8-Fluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	2-Fluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	2-Aminoadenine	O-acyl	Br
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	2-N-acetylguanine	O-acyl	Br
CF_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	Br
CF_3	O-amino acid	S	6-N-acetyladenine	O-acyl	Br
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	Br
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	Br
CF_3	O-amino acid	S	Thymine	OH	Br
CF_3	O-amino acid	S	Uracil	OH	Br
CF_3	O-amino acid	S	Guanine	OH	Br
CF_3	O-amino acid	S	Cytosine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	Adenine	OH	Br
CF_3	O-amino acid	S	Hypoxanthine	OH	Br
CF_3	O-amino acid	S	5-Fluorouracil	OH	Br
CF_3	O-amino acid	S	8-Fluoroguanine	OH	Br
CF_3	O-amino acid	S	5-Fluorocytosine	OH	Br
CF_3	O-amino acid	S	8-Fluoroadenine	OH	Br
CF_3	O-amino acid	S	2-Fluoroadenine	OH	Br
CF_3	O-amino acid	S	2,8-Difluoroadenine	OH	Br
CF_3	O-amino acid	S	2-Fluorohypoxanthine	OH	Br
CF_3	O-amino acid	S	8-Fluorohypoxanthine	OH	Br
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	Br
CF_3	O-amino acid	S	2-Aminoadenine	OH	Br
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	Br
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	Br
CF_3	O-amino acid	S	2-Aminohypoxanthine	OH	Br
CF_3	O-amino acid	S	2-N-acetylguanine	OH	Br
CF_3	O-amino acid	S	4-N-acetylcytosine	OH	Br
CF_3	O-amino acid	S	6-N-acetyladenine	OH	Br
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	Br
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	Br
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	Br
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	Br
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	Br
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CF_3	O-amino acid	S	2-N-acetylaminoadenine	OH	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	Br
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	Br
CF_3	O-amino acid	S	Thymine	H	Cl
CF_3	O-amino acid	S	Uracil	H	Cl
CF_3	O-amino acid	S	Guanine	H	Cl
CF_3	O-amino acid	S	Cytosine	H	Cl
CF_3	O-amino acid	S	Adenine	H	Cl
CF_3	O-amino acid	S	Hypoxanthine	H	Cl
CF_3	O-amino acid	S	5-Fluorouracil	H	Cl
CF_3	O-amino acid	S	8-Fluoroguanine	H	Cl
CF_3	O-amino acid	S	5-Fluorocytosine	H	Cl
CF_3	O-amino acid	S	8-Fluoroadenine	H	Cl
CF_3	O-amino acid	S	2-Fluoroadenine	H	Cl
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	Cl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	Cl
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	Cl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	Cl
CF_3	O-amino acid	S	2-Aminoadenine	H	Cl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	Cl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	Cl
CF_3	O-amino acid	S	2-N-acetylguanine	H	Cl
CF_3	O-amino acid	S	4-N-acetylcytosine	H	Cl
CF_3	O-amino acid	S	6-N-acetyladenine	H	Cl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	Cl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	Cl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	Cl
CF_3	O-amino acid	S	Thymine	O-amino acid	Cl
CF_3	O-amino acid	S	Uracil	O-amino acid	Cl
CF_3	O-amino acid	S	Guanine	O-amino acid	Cl
CF_3	O-amino acid	S	Cytosine	O-amino acid	Cl
CF_3	O-amino acid	S	Adenine	O-amino acid	Cl
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	Cl
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	Cl
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	Cl
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	Cl
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	Cl
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CF_3	O-amino acid	S	Thymine	O-acyl	Cl
CF_3	O-amino acid	S	Uracil	O-acyl	Cl
CF_3	O-amino acid	S	Guanine	O-acyl	Cl
CF_3	O-amino acid	S	Cytosine	O-acyl	Cl
CF_3	O-amino acid	S	Adenine	O-acyl	Cl
CF_3	O-amino acid	S	Hypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	5-Fluorouracil	O-acyl	Cl
CF_3	O-amino acid	S	8-Fluoroguanine	O-acyl	Cl
CF_3	O-amino acid	S	5-Fluorocytosine	O-acyl	Cl
CF_3	O-amino acid	S	8-Fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-Fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	2-Aminoadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	2-N-acetylguanine	O-acyl	Cl
CF_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	Cl
CF_3	O-amino acid	S	6-N-acetyladenine	O-acyl	Cl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	Cl
CF_3	O-amino acid	S	Thymine	OH	Cl
CF_3	O-amino acid	S	Uracil	OH	Cl
CF_3	O-amino acid	S	Guanine	OH	Cl
CF_3	O-amino acid	S	Cytosine	OH	Cl
CF_3	O-amino acid	S	Adenine	OH	Cl
CF_3	O-amino acid	S	Hypoxanthine	OH	Cl
CF_3	O-amino acid	S	5-Fluorouracil	OH	Cl
CF_3	O-amino acid	S	8-Fluoroguanine	OH	Cl
CF_3	O-amino acid	S	5-Fluorocytosine	OH	Cl
CF_3	O-amino acid	S	8-Fluoroadenine	OH	Cl
CF_3	O-amino acid	S	2-Fluoroadenine	OH	Cl
CF_3	O-amino acid	S	2,8-Difluoroadenine	OH	Cl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	OH	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	8-Fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	Cl
CF_3	O-amino acid	S	2-Aminoadenine	OH	Cl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	Cl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	S	2-Aminohypoxanthine	OH	Cl
CF_3	O-amino acid	S	2-N-acetylguanine	OH	Cl
CF_3	O-amino acid	S	4-N-acetylcytosine	OH	Cl
CF_3	O-amino acid	S	6-N-acetyladenine	OH	Cl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	Cl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	Cl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	Cl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	OH	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	Cl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	Cl
CF_3	O-amino acid	S	Thymine	H	H
CF_3	O-amino acid	S	Uracil	H	H
CF_3	O-amino acid	S	Guanine	H	H
CF_3	O-amino acid	S	Cytosine	H	H
CF_3	O-amino acid	S	Adenine	H	H
CF_3	O-amino acid	S	Hypoxanthine	H	H
CF_3	O-amino acid	S	5-Fluorouracil	H	H
CF_3	O-amino acid	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	S	2-Aminoadenine	H	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	S	Thymine	O-amino acid	H
CF_3	O-amino acid	S	Uracil	O-amino acid	H
CF_3	O-amino acid	S	Guanine	O-amino acid	H
CF_3	O-amino acid	S	Cytosine	O-amino acid	H
CF_3	O-amino acid	S	Adenine	O-amino acid	H
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	Thymine	O-acyl	H
CF_3	O-amino acid	S	Uracil	O-acyl	H
CF_3	O-amino acid	S	Guanine	O-acyl	H
CF_3	O-amino acid	S	Cytosine	O-acyl	H
CF_3	O-amino acid	S	Adenine	O-acyl	H
CF_3	O-amino acid	S	Hypoxanthine	O-acyl	H
CF_3	O-amino acid	S	5-Fluorouracil	O-acyl	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	5-Fluorocytosine	O-acyl	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-acyl	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-acyl	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	2-Aminoadenine	O-acyl	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-acyl	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-acyl	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	Thymine	OH	H
CF_3	O-amino acid	S	Uracil	OH	H
CF_3	O-amino acid	S	Guanine	OH	H
CF_3	O-amino acid	S	Cytosine	OH	H
CF_3	O-amino acid	S	Adenine	OH	H
CF_3	O-amino acid	S	Hypoxanthine	OH	H
CF_3	O-amino acid	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	S	6-N-acetyladenine	OH	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	S	Thymine	H	OH
CF_3	O-amino acid	S	Uracil	H	OH
CF_3	O-amino acid	S	Guanine	H	OH
CF_3	O-amino acid	S	Cytosine	H	OH
CF_3	O-amino acid	S	Adenine	H	OH
CF_3	O-amino acid	S	Hypoxanthine	H	OH
CF_3	O-amino acid	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	OH	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	OH	S	Thymine	O-amino acid	F
CF_3	OH	S	Uracil	O-amino acid	F
CF_3	OH	S	Guanine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	S	Cytosine	O-amino acid	F
CF_3	OH	S	Adenine	O-amino acid	F
CF_3	OH	S	Hypoxanthine	O-amino acid	F
CF_3	OH	S	5-Fluorouracil	O-amino acid	F
CF_3	OH	S	8-Fluoroguanine	O-amino acid	F
CF_3	OH	S	5-Fluorocytosine	O-amino acid	F
CF_3	OH	S	8-Fluoroadenine	O-amino acid	F
CF_3	OH	S	2-Fluoroadenine	O-amino acid	F
CF_3	OH	S	2,8-Difluoroadenine	O-amino acid	F
CF_3	OH	S	2-Fluorohypoxanthine	O-amino acid	F
CF_3	OH	S	8-Fluorohypoxanthine	O-amino acid	F
CF_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	F
CF_3	OH	S	2-Aminoadenine	O-amino acid	F
CF_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	F
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CF_3	OH	S	2-Aminohypoxanthine	O-amino acid	F
CF_3	OH	S	2-N-acetylguanine	O-amino acid	F
CF_3	OH	S	4-N-acetylcytosine	O-amino acid	F
CF_3	OH	S	6-N-acetyladenine	O-amino acid	F
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	F
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CF_3	OH	S	2-N-acetylaminoadenine	O-amino acid	F
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	F
CF_3	OH	S	Thymine	O-acyl	F
CF_3	OH	S	Uracil	O-acyl	F
CF_3	OH	S	Guanine	O-acyl	F
CF_3	OH	S	Cytosine	O-acyl	F
CF_3	OH	S	Adenine	O-acyl	F
CF_3	OH	S	Hypoxanthine	O-acyl	F
CF_3	OH	S	5-Fluorouracil	O-acyl	F
CF_3	OH	S	8-Fluoroguanine	O-acyl	F
CF_3	OH	S	5-Fluorocytosine	O-acyl	F
CF_3	OH	S	8-Fluoroadenine	O-acyl	F
CF_3	OH	S	2-Fluoroadenine	O-acyl	F
CF_3	OH	S	2,8-Difluoroadenine	O-acyl	F
CF_3	OH	S	2-Fluorohypoxanthine	O-acyl	F
CF_3	OH	S	8-Fluorohypoxanthine	O-acyl	F
CF_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	F
CF_3	OH	S	2-Aminoadenine	O-acyl	F
CF_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	F
CF_3	OH	S	2-Aminohypoxanthine	O-acyl	F
CF_3	OH	S	2-N-acetylguanine	O-acyl	F
CF_3	OH	S	4-N-acetylcytosine	O-acyl	F
CF_3	OH	S	6-N-acetyladenine	O-acyl	F
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	F
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	F
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	F
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	F
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CF_3	OH	S	2-N-acetylaminoadenine	O-acyl	F
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-acyl	F
CF_3	OH	S	Thymine	O-amino acid	Br
CF_3	OH	S	Uracil	O-amino acid	Br
CF_3	OH	S	Guanine	O-amino acid	Br
CF_3	OH	S	Cytosine	O-amino acid	Br
CF_3	OH	S	Adenine	O-amino acid	Br
CF_3	OH	S	Hypoxanthine	O-amino acid	Br
CF_3	OH	S	5-Fluorouracil	O-amino acid	Br
CF_3	OH	S	8-Fluoroguanine	O-amino acid	Br
CF_3	OH	S	5-Fluorocytosine	O-amino acid	Br
CF_3	OH	S	8-Fluoroadenine	O-amino acid	Br
CF_3	OH	S	2-Fluoroadenine	O-amino acid	Br
CF_3	OH	S	2,8-Difluoroadenine	O-amino acid	Br
CF_3	OH	S	2-Fluorohypoxanthine	O-amino acid	Br
CF_3	OH	S	8-Fluorohypoxanthine	O-amino acid	Br
CF_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	Br
CF_3	OH	S	2-Aminoadenine	O-amino acid	Br
CF_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	Br
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CF_3	OH	S	2-Aminohypoxanthine	O-amino acid	Br
CF_3	OH	S	2-N-acetylguanine	O-amino acid	Br
CF_3	OH	S	4-N-acetylcytosine	O-amino acid	Br
CF_3	OH	S	6-N-acetyladenine	O-amino acid	Br
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CF_3	OH	S	2-N-acetylaminoadenine	O-amino acid	Br
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CF_3	OH	S	2-N-acetylamino-8-	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
			fluorohypoxanthine		
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	Br
CF_3	OH	S	Thymine	O-acyl	Br
CF_3	OH	S	Uracil	O-acyl	Br
CF_3	OH	S	Guanine	O-acyl	Br
CF_3	OH	S	Cytosine	O-acyl	Br
CF_3	OH	S	Adenine	O-acyl	Br
CF_3	OH	S	Hypoxanthine	O-acyl	Br
CF_3	OH	S	5-Fluorouracil	O-acyl	Br
CF_3	OH	S	8-Fluoroguanine	O-acyl	Br
CF_3	OH	S	5-Fluorocytosine	O-acyl	Br
CF_3	OH	S	8-Fluoroadenine	O-acyl	Br
CF_3	OH	S	2-Fluoroadenine	O-acyl	Br
CF_3	OH	S	2,8-Difluoroadenine	O-acyl	Br
CF_3	OH	S	2-Fluorohypoxanthine	O-acyl	Br
CF_3	OH	S	8-Fluorohypoxanthine	O-acyl	Br
CF_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	Br
CF_3	OH	S	2-Aminoadenine	O-acyl	Br
CF_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	Br
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CF_3	OH	S	2-Aminohypoxanthine	O-acyl	Br
CF_3	OH	S	2-N-acetylguanine	O-acyl	Br
CF_3	OH	S	4-N-acetylcytosine	O-acyl	Br
CF_3	OH	S	6-N-acetyladenine	O-acyl	Br
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	Br
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CF_3	OH	S	2-N-acetylaminoadenine	O-acyl	Br
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-acyl	Br
CF_3	OH	S	Thymine	O-amino acid	Cl
CF_3	OH	S	Uracil	O-amino acid	Cl
CF_3	OH	S	Guanine	O-amino acid	Cl
CF_3	OH	S	Cytosine	O-amino acid	Cl
CF_3	OH	S	Adenine	O-amino acid	Cl
CF_3	OH	S	Hypoxanthine	O-amino acid	Cl
CF_3	OH	S	5-Fluorouracil	O-amino acid	Cl
CF_3	OH	S	8-Fluoroguanine	O-amino acid	Cl
CF_3	OH	S	5-Fluorocytosine	O-amino acid	Cl
CF_3	OH	S	8-Fluoroadenine	O-amino acid	Cl
CF_3	OH	S	2-Fluoroadenine	O-amino acid	Cl
CF_3	OH	S	2,8-Difluoroadenine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	S	2-Fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	S	8-Fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	Cl
CF_3	OH	S	2-Aminoadenine	O-amino acid	Cl
CF_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	Cl
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	S	2-Aminohypoxanthine	O-amino acid	Cl
CF_3	OH	S	2-N-acetylguanine	O-amino acid	Cl
CF_3	OH	S	4-N-acetylcytosine	O-amino acid	Cl
CF_3	OH	S	6-N-acetyladenine	O-amino acid	Cl
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CF_3	OH	S	2-N-acetylaminoadenine	O-amino acid	Cl
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CF_3	OH	S	Thymine	O-acyl	Cl
CF_3	OH	S	Uracil	O-acyl	Cl
CF_3	OH	S	Guanine	O-acyl	Cl
CF_3	OH	S	Cytosine	O-acyl	Cl
CF_3	OH	S	Adenine	O-acyl	Cl
CF_3	OH	S	Hypoxanthine	O-acyl	Cl
CF_3	OH	S	5-Fluorouracil	O-acyl	Cl
CF_3	OH	S	8-Fluoroguanine	O-acyl	Cl
CF_3	OH	S	5-Fluorocytosine	O-acyl	Cl
CF_3	OH	S	8-Fluoroadenine	O-acyl	Cl
CF_3	OH	S	2-Fluoroadenine	O-acyl	Cl
CF_3	OH	S	2,8-Difluoroadenine	O-acyl	Cl
CF_3	OH	S	2-Fluorohypoxanthine	O-acyl	Cl
CF_3	OH	S	8-Fluorohypoxanthine	O-acyl	Cl
CF_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	Cl
CF_3	OH	S	2-Aminoadenine	O-acyl	Cl
CF_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	Cl
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	OH	S	2-Aminohypoxanthine	O-acyl	Cl
CF_3	OH	S	2-N-acetylguanine	O-acyl	Cl
CF_3	OH	S	4-N-acetylcytosine	O-acyl	Cl
CF_3	OH	S	6-N-acetyladenine	O-acyl	Cl
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CF_3	OH	S	2-N-acetylaminoadenine	O-acyl	Cl
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-acyl	Cl
CF_3	OH	S	Thymine	O-amino acid	H
CF_3	OH	S	Uracil	O-amino acid	H
CF_3	OH	S	Guanine	O-amino acid	H
CF_3	OH	S	Cytosine	O-amino acid	H
CF_3	OH	S	Adenine	O-amino acid	H
CF_3	OH	S	Hypoxanthine	O-amino acid	H
CF_3	OH	S	5-Fluorouracil	O-amino acid	H
CF_3	OH	S	8-Fluoroguanine	O-amino acid	H
CF_3	OH	S	5-Fluorocytosine	O-amino acid	H
CF_3	OH	S	8-Fluoroadenine	O-amino acid	H
CF_3	OH	S	2-Fluoroadenine	O-amino acid	H
CF_3	OH	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	OH	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	OH	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	OH	S	2-Aminoadenine	O-amino acid	H
CF_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	OH	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	OH	S	2-N-acetylguanine	O-amino acid	H
CF_3	OH	S	4-N-acetylcytosine	O-amino acid	H
CF_3	OH	S	6-N-acetyladenine	O-amino acid	H
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	OH	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	OH	S	Thymine	O-acyl	H
CF_3	OH	S	Uracil	O-acyl	H
CF_3	OH	S	Guanine	O-acyl	H
CF_3	OH	S	Cytosine	O-acyl	H
CF_3	OH	S	Adenine	O-acyl	H
CF_3	OH	S	Hypoxanthine	O-acyl	H
CF_3	OH	S	5-Fluorouracil	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CF_3	OH	S	8-Fluoroguanine	O-acyl	H
CF_3	OH	S	5-Fluorocytosine	O-acyl	H
CF_3	OH	S	8-Fluoroadenine	O-acyl	H
CF_3	OH	S	2-Fluoroadenine	O-acyl	H
CF_3	OH	S	2,8-Difluoroadenine	O-acyl	H
CF_3	OH	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	OH	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	OH	S	2-Aminoadenine	O-acyl	H
CF_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	OH	S	2-Aminohypoxanthine	O-acyl	H
CF_3	OH	S	2-N-acetylguanine	O-acyl	H
CF_3	OH	S	4-N-acetylcytosine	O-acyl	H
CF_3	OH	S	6-N-acetyladenine	O-acyl	H
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	OH	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	H	S	Thymine	O-amino acid	O-amino acid
CF_3	H	S	Uracil	O-amino acid	O-amino acid
CF_3	H	S	Guanine	O-amino acid	O-amino acid
CF_3	H	S	Cytosine	O-amino acid	O-amino acid
CF_3	H	S	Adenine	O-amino acid	O-amino acid
CF_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	Thymine	O-acyl	O-acyl
CF_3	H	S	Uracil	O-acyl	O-acyl
CF_3	H	S	Guanine	O-acyl	O-acyl
CF_3	H	S	Cytosine	O-acyl	O-acyl
CF_3	H	S	Adenine	O-acyl	O-acyl
CF_3	H	S	Hypoxanthine	O-acyl	O-acyl
CF_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	Thymine	O-amino acid	O-amino acid
CF_3	H	S	Uracil	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	Guanine	O-amino acid	O-amino acid
CF_3	H	S	Cytosine	O-amino acid	O-amino acid
CF_3	H	S	Adenine	O-amino acid	O-amino acid
CF_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	Thymine	O-acyl	O-acyl
CF_3	H	S	Uracil	O-acyl	O-acyl
CF_3	H	S	Guanine	O-acyl	O-acyl
CF_3	H	S	Cytosine	O-acyl	O-acyl
CF_3	H	S	Adenine	O-acyl	O-acyl
CF_3	H	S	Hypoxanthine	O-acyl	O-acyl
CF_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminoadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	Thymine	O-amino acid	O-amino acid
CF_3	H	S	Uracil	O-amino acid	O-amino acid
CF_3	H	S	Guanine	O-amino acid	O-amino acid
CF_3	H	S	Cytosine	O-amino acid	O-amino acid
CF_3	H	S	Adenine	O-amino acid	O-amino acid
CF_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	Thymine	O-acyl	O-acyl
CF_3	H	S	Uracil	O-acyl	O-acyl
CF_3	H	S	Guanine	O-acyl	O-acyl
CF_3	H	S	Cytosine	O-acyl	O-acyl
CF_3	H	S	Adenine	O-acyl	O-acyl
CF_3	H	S	Hypoxanthine	O-acyl	O-acyl
CF_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	Thymine	O-amino acid	O-amino acid
CF_3	H	S	Uracil	O-amino acid	O-amino acid
CF_3	H	S	Guanine	O-amino acid	O-amino acid
CF_3	H	S	Cytosine	O-amino acid	O-amino acid
CF_3	H	S	Adenine	O-amino acid	O-amino acid
CF_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	Thymine	O-acyl	O-acyl
CF_3	H	S	Uracil	O-acyl	O-acyl
CF_3	H	S	Guanine	O-acyl	O-acyl
CF_3	H	S	Cytosine	O-acyl	O-acyl
CF_3	H	S	Adenine	O-acyl	O-acyl
CF_3	H	S	Hypoxanthine	O-acyl	O-acyl
CF_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	Thymine	O-amino acid	O-amino acid
CF_3	H	S	Uracil	O-amino acid	O-amino acid
CF_3	H	S	Guanine	O-amino acid	O-amino acid
CF_3	H	S	Cytosine	O-amino acid	O-amino acid
CF_3	H	S	Adenine	O-amino acid	O-amino acid
CF_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CF_3	H	S	Thymine	O-acyl	O-acyl
CF_3	H	S	Uracil	O-acyl	O-acyl
CF_3	H	S	Guanine	O-acyl	O-acyl
CF_3	H	S	Cytosine	O-acyl	O-acyl
CF_3	H	S	Adenine	O-acyl	O-acyl
CF_3	H	S	Hypoxanthine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CF_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CF_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CF_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CF_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	O-acyl	S	Thymine	H	F
CH_3	O-acyl	S	Uracil	H	F
CH_3	O-acyl	S	Guanine	H	F
CH_3	O-acyl	S	Cytosine	H	F
CH_3	O-acyl	S	Adenine	H	F
CH_3	O-acyl	S	Hypoxanthine	H	F
CH_3	O-acyl	S	5-Fluorouracil	H	F
CH_3	O-acyl	S	8-Fluoroguanine	H	F
CH_3	O-acyl	S	5-Fluorocytosine	H	F
CH_3	O-acyl	S	8-Fluoroadenine	H	F
CH_3	O-acyl	S	2-Fluoroadenine	H	F
CH_3	O-acyl	S	2,8-Difluoroadenine	H	F
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	F
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	F
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	F
CH_3	O-acyl	S	2-Aminoadenine	H	F
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	F
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	F
CH_3	O-acyl	S	2-Aminohypoxanthine	H	F
CH_3	O-acyl	S	2-N-acetylguanine	H	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	4-N-acetylcytosine	H	F
CH_3	O-acyl	S	6-N-acetyladenine	H	F
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	F
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	F
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	F
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	F
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	F
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	F
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	F
CH_3	O-acyl	S	Thymine	O-amino acid	F
CH_3	O-acyl	S	Uracil	O-amino acid	F
CH_3	O-acyl	S	Guanine	O-amino acid	F
CH_3	O-acyl	S	Cytosine	O-amino acid	F
CH_3	O-acyl	S	Adenine	O-amino acid	F
CH_3	O-acyl	S	Hypoxanthine	O-amino acid	F
CH_3	O-acyl	S	5-Fluorouracil	O-amino acid	F
CH_3	O-acyl	S	8-Fluoroguanine	O-amino acid	F
CH_3	O-acyl	S	5-Fluorocytosine	O-amino acid	F
CH_3	O-acyl	S	8-Fluoroadenine	O-amino acid	F
CH_3	O-acyl	S	2-Fluoroadenine	O-amino acid	F
CH_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	F
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	2-Aminoadenine	O-amino acid	F
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	F
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	2-N-acetylguanine	O-amino acid	F
CH_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	F
CH_3	O-acyl	S	6-N-acetyladenine	O-amino acid	F
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	F
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	F
CH_3	O-acyl	S	Thymine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	Uracil	O-acyl	F
CH_3	O-acyl	S	Guanine	O-acyl	F
CH_3	O-acyl	S	Cytosine	O-acyl	F
CH_3	O-acyl	S	Adenine	O-acyl	F
CH_3	O-acyl	S	Hypoxanthine	O-acyl	F
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	F
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	F
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	F
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	F
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	F
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	F
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	F
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	F
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	F
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	F
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	F
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	F
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	F
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	F
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	F
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	F
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	F
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	F
CH_3	O-acyl	S	Thymine	OH	F
CH_3	O-acyl	S	Uracil	OH	F
CH_3	O-acyl	S	Guanine	OH	F
CH_3	O-acyl	S	Cytosine	OH	F
CH_3	O-acyl	S	Adenine	OH	F
CH_3	O-acyl	S	Hypoxanthine	OH	F
CH_3	O-acyl	S	5-Fluorouracil	OH	F
CH_3	O-acyl	S	8-Fluoroguanine	OH	F
CH_3	O-acyl	S	5-Fluorocytosine	OH	F
CH_3	O-acyl	S	8-Fluoroadenine	OH	F
CH_3	O-acyl	S	2-Fluoroadenine	OH	F
CH_3	O-acyl	S	2,8-Difluoroadenine	OH	F
CH_3	O-acyl	S	2-Fluorohypoxanthine	OH	F
CH_3	O-acyl	S	8-Fluorohypoxanthine	OH	F
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	2-Aminoadenine	OH	F
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	F
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	F
CH_3	O-acyl	S	2-Aminohypoxanthine	OH	F
CH_3	O-acyl	S	2-N-acetylguanine	OH	F
CH_3	O-acyl	S	4-N-acetylcytosine	OH	F
CH_3	O-acyl	S	6-N-acetyladenine	OH	F
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	F
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	F
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	F
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	F
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	F
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CH_3	O-acyl	S	2-N-acetylaminoadenine	OH	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	F
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	F
CH_3	O-acyl	S	Thymine	H	Br
CH_3	O-acyl	S	Uracil	H	Br
CH_3	O-acyl	S	Guanine	H	Br
CH_3	O-acyl	S	Cytosine	H	Br
CH_3	O-acyl	S	Adenine	H	Br
CH_3	O-acyl	S	Hypoxanthine	H	Br
CH_3	O-acyl	S	5-Fluorouracil	H	Br
CH_3	O-acyl	S	8-Fluoroguanine	H	Br
CH_3	O-acyl	S	5-Fluorocytosine	H	Br
CH_3	O-acyl	S	8-Fluoroadenine	H	Br
CH_3	O-acyl	S	2-Fluoroadenine	H	Br
CH_3	O-acyl	S	2,8-Difluoroadenine	H	Br
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	Br
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	Br
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	Br
CH_3	O-acyl	S	2-Aminoadenine	H	Br
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	Br
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	Br
CH_3	O-acyl	S	2-Aminohypoxanthine	H	Br
CH_3	O-acyl	S	2-N-acetylguanine	H	Br
CH_3	O-acyl	S	4-N-acetylcytosine	H	Br
CH_3	O-acyl	S	6-N-acetyladenine	H	Br
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	Br
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	Br
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	Br
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	Br
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	Br
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	Br
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	Br
CH_3	O-acyl	S	Thymine	O-amino acid	Br
CH_3	O-acyl	S	Uracil	O-amino acid	Br
CH_3	O-acyl	S	Guanine	O-amino acid	Br
CH_3	O-acyl	S	Cytosine	O-amino acid	Br
CH_3	O-acyl	S	Adenine	O-amino acid	Br
CH_3	O-acyl	S	Hypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	5-Fluorouracil	O-amino acid	Br
CH_3	O-acyl	S	8-Fluoroguanine	O-amino acid	Br
CH_3	O-acyl	S	5-Fluorocytosine	O-amino acid	Br
CH_3	O-acyl	S	8-Fluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	2-Fluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	2-Aminoadenine	O-amino acid	Br
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	2-N-acetylguanine	O-amino acid	Br
CH_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	Br
CH_3	O-acyl	S	6-N-acetyladenine	O-amino acid	Br
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	Br
CH_3	O-acyl	S	Thymine	O-acyl	Br
CH_3	O-acyl	S	Uracil	O-acyl	Br
CH_3	O-acyl	S	Guanine	O-acyl	Br
CH_3	O-acyl	S	Cytosine	O-acyl	Br
CH_3	O-acyl	S	Adenine	O-acyl	Br
CH_3	O-acyl	S	Hypoxanthine	O-acyl	Br
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	Br
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	Br
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	Br
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	Br
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	Br
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	Br
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	Br
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	Br
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	Br
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	Br
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	Br
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	Br
CH_3	O-acyl	S	Thymine	OH	Br
CH_3	O-acyl	S	Uracil	OH	Br
CH_3	O-acyl	S	Guanine	OH	Br
CH_3	O-acyl	S	Cytosine	OH	Br
CH_3	O-acyl	S	Adenine	OH	Br
CH_3	O-acyl	S	Hypoxanthine	OH	Br
CH_3	O-acyl	S	5-Fluorouracil	OH	Br
CH_3	O-acyl	S	8-Fluoroguanine	OH	Br
CH_3	O-acyl	S	5-Fluorocytosine	OH	Br
CH_3	O-acyl	S	8-Fluoroadenine	OH	Br
CH_3	O-acyl	S	2-Fluoroadenine	OH	Br
CH_3	O-acyl	S	2,8-Difluoroadenine	OH	Br
CH_3	O-acyl	S	2-Fluorohypoxanthine	OH	Br
CH_3	O-acyl	S	8-Fluorohypoxanthine	OH	Br
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	Br
CH_3	O-acyl	S	2-Aminoadenine	OH	Br
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	Br
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	Br
CH_3	O-acyl	S	2-Aminohypoxanthine	OH	Br
CH_3	O-acyl	S	2-N-acetylguanine	OH	Br
CH_3	O-acyl	S	4-N-acetylcytosine	OH	Br
CH_3	O-acyl	S	6-N-acetyladenine	OH	Br
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	Br
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	Br
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	Br
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	Br
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CH_3	O-acyl	S	2-N-acetylaminoadenine	OH	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	Br
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	Br
CH_3	O-acyl	S	Thymine	O-acyl	Cl
CH_3	O-acyl	S	Uracil	O-acyl	Cl
CH_3	O-acyl	S	Guanine	O-acyl	Cl
CH_3	O-acyl	S	Cytosine	O-acyl	Cl
CH_3	O-acyl	S	Adenine	O-acyl	Cl
CH_3	O-acyl	S	Hypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	Cl
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	Cl
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	Cl
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	Cl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	Cl
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	Cl
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	Cl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	Cl
CH_3	O-acyl	S	Thymine	OH	Cl
CH_3	O-acyl	S	Uracil	OH	Cl
CH_3	O-acyl	S	Guanine	OH	Cl
CH_3	O-acyl	S	Cytosine	OH	Cl
CH_3	O-acyl	S	Adenine	OH	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	Hypoxanthine	OH	Cl
CH_3	O-acyl	S	5-Fluorouracil	OH	Cl
CH_3	O-acyl	S	8-Fluoroguanine	OH	Cl
CH_3	O-acyl	S	5-Fluorocytosine	OH	Cl
CH_3	O-acyl	S	8-Fluoroadenine	OH	Cl
CH_3	O-acyl	S	2-Fluoroadenine	OH	Cl
CH_3	O-acyl	S	2,8-Difluoroadenine	OH	Cl
CH_3	O-acyl	S	2-Fluorohypoxanthine	OH	Cl
CH_3	O-acyl	S	8-Fluorohypoxanthine	OH	Cl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	Cl
CH_3	O-acyl	S	2-Aminoadenine	OH	Cl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	Cl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	Cl
CH_3	O-acyl	S	2-Aminohypoxanthine	OH	Cl
CH_3	O-acyl	S	2-N-acetylguanine	OH	Cl
CH_3	O-acyl	S	4-N-acetylcytosine	OH	Cl
CH_3	O-acyl	S	6-N-acetyladenine	OH	Cl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	Cl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	Cl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	Cl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	Cl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CH_3	O-acyl	S	2-N-acetylaminoadenine	OH	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	Cl
CH_3	O-acyl	S	Thymine	H	Cl
CH_3	O-acyl	S	Uracil	H	Cl
CH_3	O-acyl	S	Guanine	H	Cl
CH_3	O-acyl	S	Cytosine	H	Cl
CH_3	O-acyl	S	Adenine	H	Cl
CH_3	O-acyl	S	Hypoxanthine	H	Cl
CH_3	O-acyl	S	5-Fluorouracil	H	Cl
CH_3	O-acyl	S	8-Fluoroguanine	H	Cl
CH_3	O-acyl	S	5-Fluorocytosine	H	Cl
CH_3	O-acyl	S	8-Fluoroadenine	H	Cl
CH_3	O-acyl	S	2-Fluoroadenine	H	Cl
CH_3	O-acyl	S	2,8-Difluoroadenine	H	Cl
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	Cl
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	Cl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	Cl
CH_3	O-acyl	S	2-Aminoadenine	H	Cl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	Cl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	Cl
CH_3	O-acyl	S	2-Aminohypoxanthine	H	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	2-N-acetylguanine	H	Cl
CH_3	O-acyl	S	4-N-acetylcytosine	H	Cl
CH_3	O-acyl	S	6-N-acetyladenine	H	Cl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	Cl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	Cl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	Cl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	Cl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	Cl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	Cl
CH_3	O-acyl	S	Thymine	O-amino acid	Cl
CH_3	O-acyl	S	Uracil	O-amino acid	Cl
CH_3	O-acyl	S	Guanine	O-amino acid	Cl
CH_3	O-acyl	S	Cytosine	O-amino acid	Cl
CH_3	O-acyl	S	Adenine	O-amino acid	Cl
CH_3	O-acyl	S	Hypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	5-Fluorouracil	O-amino acid	Cl
CH_3	O-acyl	S	8-Fluoroguanine	O-amino acid	Cl
CH_3	O-acyl	S	5-Fluorocytosine	O-amino acid	Cl
CH_3	O-acyl	S	8-Fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-Fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	2-Aminoadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	2-N-acetylguanine	O-amino acid	Cl
CH_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	Cl
CH_3	O-acyl	S	6-N-acetyladenine	O-amino acid	Cl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	Thymine	H	H
CH_3	O-acyl	S	Uracil	H	H
CH_3	O-acyl	S	Guanine	H	H
CH_3	O-acyl	S	Cytosine	H	H
CH_3	O-acyl	S	Adenine	H	H
CH_3	O-acyl	S	Hypoxanthine	H	H
CH_3	O-acyl	S	5-Fluorouracil	H	H
CH_3	O-acyl	S	8-Fluoroguanine	H	H
CH_3	O-acyl	S	5-Fluorocytosine	H	H
CH_3	O-acyl	S	8-Fluoroadenine	H	H
CH_3	O-acyl	S	2-Fluoroadenine	H	H
CH_3	O-acyl	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	S	2-Aminoadenine	H	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	S	2-N-acetylguanine	H	H
CH_3	O-acyl	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	S	6-N-acetyladenine	H	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	S	Thymine	O-amino acid	H
CH_3	O-acyl	S	Uracil	O-amino acid	H
CH_3	O-acyl	S	Guanine	O-amino acid	H
CH_3	O-acyl	S	Cytosine	O-amino acid	H
CH_3	O-acyl	S	Adenine	O-amino acid	H
CH_3	O-acyl	S	Hypoxanthine	O-amino acid	H
CH_3	O-acyl	S	5-Fluorouracil	O-amino acid	H
CH_3	O-acyl	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-acyl	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-acyl	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-acyl	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-acyl	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-amino acid	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	2-Aminoadenine	O-amino acid	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-acyl	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	Thymine	O-acyl	H
CH_3	O-acyl	S	Uracil	O-acyl	H
CH_3	O-acyl	S	Guanine	O-acyl	H
CH_3	O-acyl	S	Cytosine	O-acyl	H
CH_3	O-acyl	S	Adenine	O-acyl	H
CH_3	O-acyl	S	Hypoxanthine	O-acyl	H
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	Thymine	OH	H
CH_3	O-acyl	S	Uracil	OH	H
CH_3	O-acyl	S	Guanine	OH	H
CH_3	O-acyl	S	Cytosine	OH	H
CH_3	O-acyl	S	Adenine	OH	H
CH_3	O-acyl	S	Hypoxanthine	OH	H
CH_3	O-acyl	S	5-Fluorouracil	OH	H
CH_3	O-acyl	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	S	2-Aminoadenine	OH	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	S	Thymine	H	OH
CH_3	O-acyl	S	Uracil	H	OH
CH_3	O-acyl	S	Guanine	H	OH
CH_3	O-acyl	S	Cytosine	H	OH
CH_3	O-acyl	S	Adenine	H	OH
CH_3	O-acyl	S	Hypoxanthine	H	OH
CH_3	O-acyl	S	5-Fluorouracil	H	OH
CH_3	O-acyl	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	S	5-Fluorocytosine	H	OH

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-acyl	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	S	2-Aminoadenine	H	OH
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	S	Thymine	H	F
CH_3	O-amino acid	S	Uracil	H	F
CH_3	O-amino acid	S	Guanine	H	F
CH_3	O-amino acid	S	Cytosine	H	F
CH_3	O-amino acid	S	Adenine	H	F
CH_3	O-amino acid	S	Hypoxanthine	H	F
CH_3	O-amino acid	S	5-Fluorouracil	H	F
CH_3	O-amino acid	S	8-Fluoroguanine	H	F
CH_3	O-amino acid	S	5-Fluorocytosine	H	F
CH_3	O-amino acid	S	8-Fluoroadenine	H	F
CH_3	O-amino acid	S	2-Fluoroadenine	H	F
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	F
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	F
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	F
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	F
CH_3	O-amino acid	S	2-Aminoadenine	H	F
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	F
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	F
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	F
CH_3	O-amino acid	S	2-N-acetylguanine	H	F
CH_3	O-amino acid	S	4-N-acetylcytosine	H	F
CH_3	O-amino acid	S	6-N-acetyladenine	H	F
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	F
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	F
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	F
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	F
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	F
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	F
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	F
CH_3	O-amino acid	S	Thymine	O-amino acid	F
CH_3	O-amino acid	S	Uracil	O-amino acid	F
CH_3	O-amino acid	S	Guanine	O-amino acid	F
CH_3	O-amino acid	S	Cytosine	O-amino acid	F
CH_3	O-amino acid	S	Adenine	O-amino acid	F
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	F
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	F
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	F
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	F
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	F
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	F
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	F
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	F
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	F
CH_3	O-amino acid	S	Thymine	O-acyl	F
CH_3	O-amino acid	S	Uracil	O-acyl	F
CH_3	O-amino acid	S	Guanine	O-acyl	F
CH_3	O-amino acid	S	Cytosine	O-acyl	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	Adenine	O-acyl	F
CH_3	O-amino acid	S	Hypoxanthine	O-acyl	F
CH_3	O-amino acid	S	5-Fluorouracil	O-acyl	F
CH_3	O-amino acid	S	8-Fluoroguanine	O-acyl	F
CH_3	O-amino acid	S	5-Fluorocytosine	O-acyl	F
CH_3	O-amino acid	S	8-Fluoroadenine	O-acyl	F
CH_3	O-amino acid	S	2-Fluoroadenine	O-acyl	F
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	F
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	2-Aminoadenine	O-acyl	F
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	F
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	2-N-acetylguanine	O-acyl	F
CH_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	F
CH_3	O-amino acid	S	6-N-acetyladenine	O-acyl	F
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	F
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	F
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	F
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	F
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	F
CH_3	O-amino acid	S	Thymine	OH	F
CH_3	O-amino acid	S	Uracil	OH	F
CH_3	O-amino acid	S	Guanine	OH	F
CH_3	O-amino acid	S	Cytosine	OH	F
CH_3	O-amino acid	S	Adenine	OH	F
CH_3	O-amino acid	S	Hypoxanthine	OH	F
CH_3	O-amino acid	S	5-Fluorouracil	OH	F
CH_3	O-amino acid	S	8-Fluoroguanine	OH	F
CH_3	O-amino acid	S	5-Fluorocytosine	OH	F
CH_3	O-amino acid	S	8-Fluoroadenine	OH	F
CH_3	O-amino acid	S	2-Fluoroadenine	OH	F
CH_3	O-amino acid	S	2,8-Difluoroadenine	OH	F
CH_3	O-amino acid	S	2-Fluorohypoxanthine	OH	F
CH_3	O-amino acid	S	8-Fluorohypoxanthine	OH	F
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	F
CH_3	O-amino acid	S	2-Aminoadenine	OH	F
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	F
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	2-Aminohypoxanthine	OH	F
CH_3	O-amino acid	S	2-N-acetylguanine	OH	F
CH_3	O-amino acid	S	4-N-acetylcytosine	OH	F
CH_3	O-amino acid	S	6-N-acetyladenine	OH	F
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	F
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	F
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	F
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	F
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	F
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	F
CH_3	O-amino acid	S	2-N-acetylaminoadenine	OH	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	F
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	F
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	F
CH_3	O-amino acid	S	Thymine	H	Br
CH_3	O-amino acid	S	Uracil	H	Br
CH_3	O-amino acid	S	Guanine	H	Br
CH_3	O-amino acid	S	Cytosine	H	Br
CH_3	O-amino acid	S	Adenine	H	Br
CH_3	O-amino acid	S	Hypoxanthine	H	Br
CH_3	O-amino acid	S	5-Fluorouracil	H	Br
CH_3	O-amino acid	S	8-Fluoroguanine	H	Br
CH_3	O-amino acid	S	5-Fluorocytosine	H	Br
CH_3	O-amino acid	S	8-Fluoroadenine	H	Br
CH_3	O-amino acid	S	2-Fluoroadenine	H	Br
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	Br
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	Br
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	Br
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	Br
CH_3	O-amino acid	S	2-Aminoadenine	H	Br
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	Br
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	Br
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	Br
CH_3	O-amino acid	S	2-N-acetylguanine	H	Br
CH_3	O-amino acid	S	4-N-acetylcytosine	H	Br
CH_3	O-amino acid	S	6-N-acetyladenine	H	Br
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	Br
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	Br
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	Br
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	Br
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	Br
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Br
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	Br
CH_3	O-amino acid	S	Thymine	O-amino acid	Br
CH_3	O-amino acid	S	Uracil	O-amino acid	Br
CH_3	O-amino acid	S	Guanine	O-amino acid	Br
CH_3	O-amino acid	S	Cytosine	O-amino acid	Br
CH_3	O-amino acid	S	Adenine	O-amino acid	Br
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	Br
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	Br
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	Br
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	Br
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	Br
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	Br
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	Br
CH_3	O-amino acid	S	Thymine	O-acyl	Br
CH_3	O-amino acid	S	Uracil	O-acyl	Br
CH_3	O-amino acid	S	Guanine	O-acyl	Br
CH_3	O-amino acid	S	Cytosine	O-acyl	Br
CH_3	O-amino acid	S	Adenine	O-acyl	Br
CH_3	O-amino acid	S	Hypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	5-Fluorouracil	O-acyl	Br
CH_3	O-amino acid	S	8-Fluoroguanine	O-acyl	Br
CH_3	O-amino acid	S	5-Fluorocytosine	O-acyl	Br
CH_3	O-amino acid	S	8-Fluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	2-Fluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	2-Aminoadenine	O-acyl	Br
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	2-N-acetylguanine	O-acyl	Br
CH_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	Br
CH_3	O-amino acid	S	6-N-acetyladenine	O-acyl	Br
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	Br
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	Br
CH_3	O-amino acid	S	Thymine	OH	Br
CH_3	O-amino acid	S	Uracil	OH	Br
CH_3	O-amino acid	S	Guanine	OH	Br
CH_3	O-amino acid	S	Cytosine	OH	Br
CH_3	O-amino acid	S	Adenine	OH	Br
CH_3	O-amino acid	S	Hypoxanthine	OH	Br
CH_3	O-amino acid	S	5-Fluorouracil	OH	Br
CH_3	O-amino acid	S	8-Fluoroguanine	OH	Br
CH_3	O-amino acid	S	5-Fluorocytosine	OH	Br
CH_3	O-amino acid	S	8-Fluoroadenine	OH	Br
CH_3	O-amino acid	S	2-Fluoroadenine	OH	Br
CH_3	O-amino acid	S	2,8-Difluoroadenine	OH	Br
CH_3	O-amino acid	S	2-Fluorohypoxanthine	OH	Br
CH_3	O-amino acid	S	8-Fluorohypoxanthine	OH	Br
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	Br
CH_3	O-amino acid	S	2-Aminoadenine	OH	Br
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	Br
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	Br
CH_3	O-amino acid	S	2-Aminohypoxanthine	OH	Br
CH_3	O-amino acid	S	2-N-acetylguanine	OH	Br
CH_3	O-amino acid	S	4-N-acetylcytosine	OH	Br
CH_3	O-amino acid	S	6-N-acetyladenine	OH	Br
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	Br
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	Br
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	Br
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	Br
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Br
CH_3	O-amino acid	S	2-N-acetylaminoadenine	OH	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	Br
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Br
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	Br
CH_3	O-amino acid	S	Thymine	H	Cl
CH_3	O-amino acid	S	Uracil	H	Cl
CH_3	O-amino acid	S	Guanine	H	Cl
CH_3	O-amino acid	S	Cytosine	H	Cl
CH_3	O-amino acid	S	Adenine	H	Cl
CH_3	O-amino acid	S	Hypoxanthine	H	Cl
CH_3	O-amino acid	S	5-Fluorouracil	H	Cl
CH_3	O-amino acid	S	8-Fluoroguanine	H	Cl
CH_3	O-amino acid	S	5-Fluorocytosine	H	Cl
CH_3	O-amino acid	S	8-Fluoroadenine	H	Cl
CH_3	O-amino acid	S	2-Fluoroadenine	H	Cl
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	Cl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	Cl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	Cl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	Cl
CH_3	O-amino acid	S	2-Aminoadenine	H	Cl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	Cl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	Cl
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	Cl
CH_3	O-amino acid	S	2-N-acetylguanine	H	Cl
CH_3	O-amino acid	S	4-N-acetylcytosine	H	Cl
CH_3	O-amino acid	S	6-N-acetyladenine	H	Cl
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	Cl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	Cl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	Cl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	Cl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	Cl
CH_3	O-amino acid	S	Thymine	O-amino acid	Cl
CH_3	O-amino acid	S	Uracil	O-amino acid	Cl
CH_3	O-amino acid	S	Guanine	O-amino acid	Cl
CH_3	O-amino acid	S	Cytosine	O-amino acid	Cl
CH_3	O-amino acid	S	Adenine	O-amino acid	Cl
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	Cl
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	Cl
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2;8-Difluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	Cl
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	Cl
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CH_3	O-amino acid	S	Thymine	O-acyl	Cl
CH_3	O-amino acid	S	Uracil	O-acyl	Cl
CH_3	O-amino acid	S	Guanine	O-acyl	Cl
CH_3	O-amino acid	S	Cytosine	O-acyl	Cl
CH_3	O-amino acid	S	Adenine	O-acyl	Cl
CH_3	O-amino acid	S	Hypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	5-Fluorouracil	O-acyl	Cl
CH_3	O-amino acid	S	8-Fluoroguanine	O-acyl	Cl
CH_3	O-amino acid	S	5-Fluorocytosine	O-acyl	Cl
CH_3	O-amino acid	S	8-Fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-Fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	2-Aminoadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	2-N-acetylguanine	O-acyl	Cl
CH_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	Cl
CH_3	O-amino acid	S	6-N-acetyladenine	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	Cl
CH_3	O-amino acid	S	Thymine	OH	Cl
CH_3	O-amino acid	S	Uracil	OH	Cl
CH_3	O-amino acid	S	Guanine	OH	Cl
CH_3	O-amino acid	S	Cytosine	OH	Cl
CH_3	O-amino acid	S	Adenine	OH	Cl
CH_3	O-amino acid	S	Hypoxanthine	OH	Cl
CH_3	O-amino acid	S	5-Fluorouracil	OH	Cl
CH_3	O-amino acid	S	8-Fluoroguanine	OH	Cl
CH_3	O-amino acid	S	5-Fluorocytosine	OH	Cl
CH_3	O-amino acid	S	8-Fluoroadenine	OH	Cl
CH_3	O-amino acid	S	2-Fluoroadenine	OH	Cl
CH_3	O-amino acid	S	2,8-Difluoroadenine	OH	Cl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	Cl
CH_3	O-amino acid	S	2-Aminoadenine	OH	Cl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	Cl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	S	2-Aminohypoxanthine	OH	Cl
CH_3	O-amino acid	S	2-N-acetylguanine	OH	Cl
CH_3	O-amino acid	S	4-N-acetylcytosine	OH	Cl
CH_3	O-amino acid	S	6-N-acetyladenine	OH	Cl
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	Cl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	Cl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	Cl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	Cl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	OH	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	Cl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	Cl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	Cl
CH_3	O-amino acid	S	Thymine	H	H
CH_3	O-amino acid	S	Uracil	H	H
CH_3	O-amino acid	S	Guanine	H	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	Cytosine	H	H
CH_3	O-amino acid	S	Adenine	H	H
CH_3	O-amino acid	S	Hypoxanthine	H	H
CH_3	O-amino acid	S	5-Fluorouracil	H	H
CH_3	O-amino acid	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	S	2-Aminoadenine	H	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	S	Thymine	O-amino acid	H
CH_3	O-amino acid	S	Uracil	O-amino acid	H
CH_3	O-amino acid	S	Guanine	O-amino acid	H
CH_3	O-amino acid	S	Cytosine	O-amino acid	H
CH_3	O-amino acid	S	Adenine	O-amino acid	H
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	Thymine	O-acyl	H
CH_3	O-amino acid	S	Uracil	O-acyl	H
CH_3	O-amino acid	S	Guanine	O-acyl	H
CH_3	O-amino acid	S	Cytosine	O-acyl	H
CH_3	O-amino acid	S	Adenine	O-acyl	H
CH_3	O-amino acid	S	Hypoxanthine	O-acyl	H
CH_3	O-amino acid	S	5-Fluorouracil	O-acyl	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-acyl	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-acyl	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-acyl	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-acyl	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	2-Aminoadenine	O-acyl	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-acyl	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-acyl	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-amino acid	S	2-N-acetylamino-8-	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
			fluorohypoxanthine		
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	Thymine	OH	H
CH_3	O-amino acid	S	Uracil	OH	H
CH_3	O-amino acid	S	Guanine	OH	H
CH_3	O-amino acid	S	Cytosine	OH	H
CH_3	O-amino acid	S	Adenine	OH	H
CH_3	O-amino acid	S	Hypoxanthine	OH	H
CH_3	O-amino acid	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	S	Thymine	H	OH
CH_3	O-amino acid	S	Uracil	H	OH
CH_3	O-amino acid	S	Guanine	H	OH
CH_3	O-amino acid	S	Cytosine	H	OH
CH_3	O-amino acid	S	Adenine	H	OH
CH_3	O-amino acid	S	Hypoxanthine	H	OH
CH_3	O-amino acid	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	OH

R^6	R^7	X	Base	R^9	R^{10}
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	OH	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	OH	S	Thymine	O-amino acid	F
CH_3	OH	S	Uracil	O-amino acid	F
CH_3	OH	S	Guanine	O-amino acid	F
CH_3	OH	S	Cytosine	O-amino acid	F
CH_3	OH	S	Adenine	O-amino acid	F
CH_3	OH	S	Hypoxanthine	O-amino acid	F
CH_3	OH	S	5-Fluorouracil	O-amino acid	F
CH_3	OH	S	8-Fluoroguanine	O-amino acid	F
CH_3	OH	S	5-Fluorocytosine	O-amino acid	F
CH_3	OH	S	8-Fluoroadenine	O-amino acid	F
CH_3	OH	S	2-Fluoroadenine	O-amino acid	F
CH_3	OH	S	2,8-Difluoroadenine	O-amino acid	F
CH_3	OH	S	2-Fluorohypoxanthine	O-amino acid	F
CH_3	OH	S	8-Fluorohypoxanthine	O-amino acid	F
CH_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	F
CH_3	OH	S	2-Aminoadenine	O-amino acid	F
CH_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	F
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	F
CH_3	OH	S	2-Aminohypoxanthine	O-amino acid	F
CH_3	OH	S	2-N-acetylguanine	O-amino acid	F
CH_3	OH	S	4-N-acetylcytosine	O-amino acid	F
CH_3	OH	S	6-N-acetyladenine	O-amino acid	F
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	F
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	F
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	F
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	F

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	F
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	F
CH_3	OH	S	2-N-acetylaminoadenine	O-amino acid	F
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	F
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	F
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	F
CH_3	OH	S	Thymine	O-acyl	F
CH_3	OH	S	Uracil	O-acyl	F
CH_3	OH	S	Guanine	O-acyl	F
CH_3	OH	S	Cytosine	O-acyl	F
CH_3	OH	S	Adenine	O-acyl	F
CH_3	OH	S	Hypoxanthine	O-acyl	F
CH_3	OH	S	5-Fluorouracil	O-acyl	F
CH_3	OH	S	8-Fluoroguanine	O-acyl	F
CH_3	OH	S	5-Fluorocytosine	O-acyl	F
CH_3	OH	S	8-Fluoroadenine	O-acyl	F
CH_3	OH	S	2-Fluoroadenine	O-acyl	F
CH_3	OH	S	2,8-Difluoroadenine	O-acyl	F
CH_3	OH	S	2-Fluorohypoxanthine	O-acyl	F
CH_3	OH	S	8-Fluorohypoxanthine	O-acyl	F
CH_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	F
CH_3	OH	S	2-Aminoadenine	O-acyl	F
CH_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	F
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	F
CH_3	OH	S	2-Aminohypoxanthine	O-acyl	F
CH_3	OH	S	2-N-acetylguanine	O-acyl	F
CH_3	OH	S	4-N-acetylcytosine	O-acyl	F
CH_3	OH	S	6-N-acetyladenine	O-acyl	F
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	F
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	F
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	F
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	F
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	F
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	F
CH_3	OH	S	2-N-acetylaminoadenine	O-acyl	F
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	F
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	F
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-acyl	F
CH_3	OH	S	Thymine	O-amino acid	Br
CH_3	OH	S	Uracil	O-amino acid	Br
CH_3	OH	S	Guanine	O-amino acid	Br
CH_3	OH	S	Cytosine	O-amino acid	Br
CH_3	OH	S	Adenine	O-amino acid	Br
CH_3	OH	S	Hypoxanthine	O-amino acid	Br
CH_3	OH	S	5-Fluorouracil	O-amino acid	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	S	8-Fluoroguanine	O-amino acid	Br
CH_3	OH	S	5-Fluorocytosine	O-amino acid	Br
CH_3	OH	S	8-Fluoroadenine	O-amino acid	Br
CH_3	OH	S	2-Fluoroadenine	O-amino acid	Br
CH_3	OH	S	2,8-Difluoroadenine	O-amino acid	Br
CH_3	OH	S	2-Fluorohypoxanthine	O-amino acid	Br
CH_3	OH	S	8-Fluorohypoxanthine	O-amino acid	Br
CH_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	Br
CH_3	OH	S	2-Aminoadenine	O-amino acid	Br
CH_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	Br
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	OH	S	2-Aminohypoxanthine	O-amino acid	Br
CH_3	OH	S	2-N-acetylguanine	O-amino acid	Br
CH_3	OH	S	4-N-acetylcytosine	O-amino acid	Br
CH_3	OH	S	6-N-acetyladenine	O-amino acid	Br
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Br
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Br
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Br
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Br
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	Br
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Br
CH_3	OH	S	2-N-acetylaminoadenine	O-amino acid	Br
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Br
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Br
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	Br
CH_3	OH	S	Thymine	O-acyl	Br
CH_3	OH	S	Uracil	O-acyl	Br
CH_3	OH	S	Guanine	O-acyl	Br
CH_3	OH	S	Cytosine	O-acyl	Br
CH_3	OH	S	Adenine	O-acyl	Br
CH_3	OH	S	Hypoxanthine	O-acyl	Br
CH_3	OH	S	5-Fluorouracil	O-acyl	Br
CH_3	OH	S	8-Fluoroguanine	O-acyl	Br
CH_3	OH	S	5-Fluorocytosine	O-acyl	Br
CH_3	OH	S	8-Fluoroadenine	O-acyl	Br
CH_3	OH	S	2-Fluoroadenine	O-acyl	Br
CH_3	OH	S	2,8-Difluoroadenine	O-acyl	Br
CH_3	OH	S	2-Fluorohypoxanthine	O-acyl	Br
CH_3	OH	S	8-Fluorohypoxanthine	O-acyl	Br
CH_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	Br
CH_3	OH	S	2-Aminoadenine	O-acyl	Br
CH_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	Br
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	Br
CH_3	OH	S	2-Aminohypoxanthine	O-acyl	Br
CH_3	OH	S	2-N-acetylguanine	O-acyl	Br
CH_3	OH	S	4-N-acetylcytosine	O-acyl	Br

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	S	6-N-acetyladenine	O-acyl	Br
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	Br
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	Br
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	Br
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Br
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	Br
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Br
CH_3	OH	S	2-N-acetylaminoadenine	O-acyl	Br
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Br
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Br
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-acyl	Br
CH_3	OH	S	Thymine	O-amino acid	Cl
CH_3	OH	S	Uracil	O-amino acid	Cl
CH_3	OH	S	Guanine	O-amino acid	Cl
CH_3	OH	S	Cytosine	O-amino acid	Cl
CH_3	OH	S	Adenine	O-amino acid	Cl
CH_3	OH	S	Hypoxanthine	O-amino acid	Cl
CH_3	OH	S	5-Fluorouracil	O-amino acid	Cl
CH_3	OH	S	8-Fluoroguanine	O-amino acid	Cl
CH_3	OH	S	5-Fluorocytosine	O-amino acid	Cl
CH_3	OH	S	8-Fluoroadenine	O-amino acid	Cl
CH_3	OH	S	2-Fluoroadenine	O-amino acid	Cl
CH_3	OH	S	2,8-Difluoroadenine	O-amino acid	Cl
CH_3	OH	S	2-Fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	S	8-Fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	Cl
CH_3	OH	S	2-Aminoadenine	O-amino acid	Cl
CH_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	Cl
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	S	2-Aminohypoxanthine	O-amino acid	Cl
CH_3	OH	S	2-N-acetylguanine	O-amino acid	Cl
CH_3	OH	S	4-N-acetylcytosine	O-amino acid	Cl
CH_3	OH	S	6-N-acetyladenine	O-amino acid	Cl
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	Cl
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	Cl
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	Cl
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	Cl
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	Cl
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	Cl
CH_3	OH	S	2-N-acetylaminoadenine	O-amino acid	Cl
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	Cl
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	Cl
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	Cl
CH_3	OH	S	Thymine	O-acyl	Cl
CH_3	OH	S	Uracil	O-acyl	Cl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	S	Guanine	O-acyl	Cl
CH_3	OH	S	Cytosine	O-acyl	Cl
CH_3	OH	S	Adenine	O-acyl	Cl
CH_3	OH	S	Hypoxanthine	O-acyl	Cl
CH_3	OH	S	5-Fluorouracil	O-acyl	Cl
CH_3	OH	S	8-Fluoroguanine	O-acyl	Cl
CH_3	OH	S	5-Fluorocytosine	O-acyl	Cl
CH_3	OH	S	8-Fluoroadenine	O-acyl	Cl
CH_3	OH	S	2-Fluoroadenine	O-acyl	Cl
CH_3	OH	S	2,8-Difluoroadenine	O-acyl	Cl
CH_3	OH	S	2-Fluorohypoxanthine	O-acyl	Cl
CH_3	OH	S	8-Fluorohypoxanthine	O-acyl	Cl
CH_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	Cl
CH_3	OH	S	2-Aminoadenine	O-acyl	Cl
CH_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	Cl
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	OH	S	2-Aminohypoxanthine	O-acyl	Cl
CH_3	OH	S	2-N-acetylguanine	O-acyl	Cl
CH_3	OH	S	4-N-acetylcytosine	O-acyl	Cl
CH_3	OH	S	6-N-acetyladenine	O-acyl	Cl
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	Cl
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	Cl
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	Cl
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	Cl
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	Cl
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	Cl
CH_3	OH	S	2-N-acetylaminoadenine	O-acyl	Cl
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	Cl
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	Cl
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-acyl	Cl
CH_3	OH	S	Thymine	O-amino acid	H
CH_3	OH	S	Uracil	O-amino acid	H
CH_3	OH	S	Guanine	O-amino acid	H
CH_3	OH	S	Cytosine	O-amino acid	H
CH_3	OH	S	Adenine	O-amino acid	H
CH_3	OH	S	Hypoxanthine	O-amino acid	H
CH_3	OH	S	5-Fluorouracil	O-amino acid	H
CH_3	OH	S	8-Fluoroguanine	O-amino acid	H
CH_3	OH	S	5-Fluorocytosine	O-amino acid	H
CH_3	OH	S	8-Fluoroadenine	O-amino acid	H
CH_3	OH	S	2-Fluoroadenine	O-amino acid	H
CH_3	OH	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	OH	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	OH	S	8-Fluorohypoxanthine	O-amino acid	H
CH_3	OH	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	OH	S	2-Aminoadenine	O-amino acid	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	OH	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	OH	S	2-N-acetylguanine	O-amino acid	H
CH_3	OH	S	4-N-acetylcytosine	O-amino acid	H
CH_3	OH	S	6-N-acetyladenine	O-amino acid	H
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	OH	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	OH	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	OH	S	Thymine	O-acyl	H
CH_3	OH	S	Uracil	O-acyl	H
CH_3	OH	S	Guanine	O-acyl	H
CH_3	OH	S	Cytosine	O-acyl	H
CH_3	OH	S	Adenine	O-acyl	H
CH_3	OH	S	Hypoxanthine	O-acyl	H
CH_3	OH	S	5-Fluorouracil	O-acyl	H
CH_3	OH	S	8-Fluoroguanine	O-acyl	H
CH_3	OH	S	5-Fluorocytosine	O-acyl	H
CH_3	OH	S	8-Fluoroadenine	O-acyl	H
CH_3	OH	S	2-Fluoroadenine	O-acyl	H
CH_3	OH	S	2,8-Difluoroadenine	O-acyl	H
CH_3	OH	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	OH	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	OH	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	OH	S	2-Aminoadenine	O-acyl	H
CH_3	OH	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	OH	S	2-Aminohypoxanthine	O-acyl	H
CH_3	OH	S	2-N-acetylguanine	O-acyl	H
CH_3	OH	S	4-N-acetylcytosine	O-acyl	H
CH_3	OH	S	6-N-acetyladenine	O-acyl	H
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	OH	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	OH	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^9	R^{10}
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	H	S	Thymine	O-amino acid	O-amino acid
CH_3	H	S	Uracil	O-amino acid	O-amino acid
CH_3	H	S	Guanine	O-amino acid	O-amino acid
CH_3	H	S	Cytosine	O-amino acid	O-amino acid
CH_3	H	S	Adenine	O-amino acid	O-amino acid
CH_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	Thymine	O-acyl	O-acyl
CH_3	H	S	Uracil	O-acyl	O-acyl
CH_3	H	S	Guanine	O-acyl	O-acyl
CH_3	H	S	Cytosine	O-acyl	O-acyl
CH_3	H	S	Adenine	O-acyl	O-acyl
CH_3	H	S	Hypoxanthine	O-acyl	O-acyl
CH_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluoroadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	Thymine	O-amino acid	O-amino acid
CH_3	H	S	Uracil	O-amino acid	O-amino acid
CH_3	H	S	Guanine	O-amino acid	O-amino acid
CH_3	H	S	Cytosine	O-amino acid	O-amino acid
CH_3	H	S	Adenine	O-amino acid	O-amino acid
CH_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	Thymine	O-acyl	O-acyl
CH_3	H	S	Uracil	O-acyl	O-acyl
CH_3	H	S	Guanine	O-acyl	O-acyl
CH_3	H	S	Cytosine	O-acyl	O-acyl
CH_3	H	S	Adenine	O-acyl	O-acyl
CH_3	H	S	Hypoxanthine	O-acyl	O-acyl
CH_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	Thymine	O-amino acid	O-amino acid
CH_3	H	S	Uracil	O-amino acid	O-amino acid
CH_3	H	S	Guanine	O-amino acid	O-amino acid
CH_3	H	S	Cytosine	O-amino acid	O-amino acid
CH_3	H	S	Adenine	O-amino acid	O-amino acid
CH_3	H	S	Hypoxanthine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	Thymine	O-acyl	O-acyl
CH_3	H	S	Uracil	O-acyl	O-acyl
CH_3	H	S	Guanine	O-acyl	O-acyl
CH_3	H	S	Cytosine	O-acyl	O-acyl
CH_3	H	S	Adenine	O-acyl	O-acyl
CH_3	H	S	Hypoxanthine	O-acyl	O-acyl
CH_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylguanine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	Thymine	O-amino acid	O-amino acid
CH_3	H	S	Uracil	O-amino acid	O-amino acid
CH_3	H	S	Guanine	O-amino acid	O-amino acid
CH_3	H	S	Cytosine	O-amino acid	O-amino acid
CH_3	H	S	Adenine	O-amino acid	O-amino acid
CH_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	Thymine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	Uracil	O-acyl	O-acyl
CH_3	H	S	Guanine	O-acyl	O-acyl
CH_3	H	S	Cytosine	O-acyl	O-acyl
CH_3	H	S	Adenine	O-acyl	O-acyl
CH_3	H	S	Hypoxanthine	O-acyl	O-acyl
CH_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	Thymine	O-amino acid	O-amino acid
CH_3	H	S	Uracil	O-amino acid	O-amino acid
CH_3	H	S	Guanine	O-amino acid	O-amino acid
CH_3	H	S	Cytosine	O-amino acid	O-amino acid
CH_3	H	S	Adenine	O-amino acid	O-amino acid
CH_3	H	S	Hypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorouracil	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	5-Fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	O-amino acid	O-amino acid

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	2-Aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetylcytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyladenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-amino acid	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-amino acid	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	O-amino acid	O-amino acid
CH_3	H	S	Thymine	O-acyl	O-acyl
CH_3	H	S	Uracil	O-acyl	O-acyl
CH_3	H	S	Guanine	O-acyl	O-acyl
CH_3	H	S	Cytosine	O-acyl	O-acyl
CH_3	H	S	Adenine	O-acyl	O-acyl
CH_3	H	S	Hypoxanthine	O-acyl	O-acyl
CH_3	H	S	5-Fluorouracil	O-acyl	O-acyl
CH_3	H	S	8-Fluoroguanine	O-acyl	O-acyl
CH_3	H	S	5-Fluorocytosine	O-acyl	O-acyl
CH_3	H	S	8-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminoadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-Aminohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetylcytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyladenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	O-acyl	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	O-acyl	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	O-acyl	O-acyl

R^6	R^7	X	Base	R^9	R^{10}
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	O-acyl	O-acyl

Table 13

R^2	R^3	X^1	X^2	Y
acyl	H	H	H	H
acyl	H	H	H	NH_2
acyl	H	H	H	NH-cyclopropyl
acyl	H	H	H	NH-methyl
acyl	H	H	H	NH-ethyl
acyl	H	H	H	NH-acetyl
acyl	H	H	H	OH
acyl	H	H	H	OMe
acyl	H	H	H	OEt
acyl	H	H	H	O-cyclopropyl
acyl	H	H	H	O-acetyl
acyl	H	H	H	SH
acyl	H	H	H	SMe
acyl	H	H	H	SEt
acyl	H	H	H	S-cyclopropyl
acyl	H	H	H	F
acyl	H	H	H	Cl
acyl	H	H	H	Br
acyl	H	H	H	I
acyl	acyl	H	H	H
acyl	acyl	H	H	NH_2
acyl	acyl	H	H	NH-cyclopropyl
acyl	acyl	H	H	NH-methyl
acyl	acyl	H	H	NH-ethyl
acyl	acyl	H	H	NH-acetyl
acyl	acyl	H	H	OH
acyl	acyl	H	H	OMe
acyl	acyl	H	H	OEt
acyl	acyl	H	H	O-cyclopropyl
acyl	acyl	H	H	O-acetyl
acyl	acyl	H	H	SH
acyl	acyl	H	H	SMe
acyl	acyl	H	H	SEt
acyl	acyl	H	H	S-cyclopropyl
acyl	acyl	H	H	F
acyl	acyl	H	H	Cl
acyl	acyl	H	H	Br
acyl	acyl	H	H	I
acyl	amino acid	H	H	H
acyl	amino acid	H	H	NH_2
acyl	amino acid	H	H	NH-cyclopropyl
acyl	amino acid	H	H	NH-methyl
acyl	amino acid	H	H	NH-ethyl
acyl	amino acid	H	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	H	OH
acyl	amino acid	H	H	OMe
acyl	amino acid	H	H	OEt
acyl	amino acid	H	H	O-cyclopropyl
acyl	amino acid	H	H	O-acetyl
acyl	amino acid	H	H	SH
acyl	amino acid	H	H	SMe
acyl	amino acid	H	H	SEt
acyl	amino acid	H	H	S-cyclopropyl
acyl	amino acid	H	H	F
acyl	amino acid	H	H	Cl
acyl	amino acid	H	H	Br
acyl	amino acid	H	H	I
H	acyl	H	H	H
H	acyl	H	H	NH_2
H	acyl	H	H	NH-cyclopropyl
H	acyl	H	H	NH-methyl
H	acyl	H	H	NH-ethyl
H	acyl	H	H	NH-acetyl
H	acyl	H	H	OH
H	acyl	H	H	OMe
H	acyl	H	H	OEt
H	acyl	H	H	O-cyclopropyl
H	acyl	H	H	O-acetyl
H	acyl	H	H	SH
H	acyl	H	H	SMe
H	acyl	H	H	SEt
H	acyl	H	H	S-cyclopropyl
H	acyl	H	H	F
H	acyl	H	H	Cl
H	acyl	H	H	Br
H	acyl	H	H	I
H	amino acid	H	H	H
H	amino acid	H	H	NH_2
H	amino acid	H	H	NH-cyclopropyl
H	amino acid	H	H	NH-methyl
H	amino acid	H	H	NH-ethyl
H	amino acid	H	H	NH-acetyl
H	amino acid	H	H	OH
H	amino acid	H	H	OMe
H	amino acid	H	H	OEt
H	amino acid	H	H	O-cyclopropyl
H	amino acid	H	H	O-acetyl
H	amino acid	H	H	SH
H	amino acid	H	H	SMe
H	amino acid	H	H	SEt
H	amino acid	H	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	H	F
H	amino acid	H	H	Cl
H	amino acid	H	H	Br
H	amino acid	H	H	I
amino acid	amino acid	H	H	H
amino acid	amino acid	H	H	NH_2
amino acid	amino acid	H	H	NH-cyclopropyl
amino acid	amino acid	H	H	NH-methyl
amino acid	amino acid	H	H	NH-ethyl
amino acid	amino acid	H	H	NH-acetyl
amino acid	amino acid	H	H	OH
amino acid	amino acid	H	H	OMe
amino acid	amino acid	H	H	OEt
amino acid	amino acid	H	H	O-cyclopropyl
amino acid	amino acid	H	H	O-acetyl
amino acid	amino acid	H	H	SH
amino acid	amino acid	H	H	SMe
amino acid	amino acid	H	H	SEt
amino acid	amino acid	H	H	S-cyclopropyl
amino acid	amino acid	H	H	F
amino acid	amino acid	H	H	Cl
amino acid	amino acid	H	H	Br
amino acid	amino acid	H	H	I
amino acid	H	H	H	H
amino acid	H	H	H	NH_2
amino acid	H	H	H	NH-cyclopropyl
amino acid	H	H	H	NH-methyl
amino acid	H	H	H	NH-ethyl
amino acid	H	H	H	NH-acetyl
amino acid	H	H	H	OH
amino acid	H	H	H	OMe
amino acid	H	H	H	OEt
amino acid	H	H	H	O-cyclopropyl
amino acid	H	H	H	O-acetyl
amino acid	H	H	H	SH
amino acid	H	H	H	SMe
amino acid	H	H	H	SEt
amino acid	H	H	H	S-cyclopropyl
amino acid	H	H	H	F
amino acid	H	H	H	Cl
amino acid	H	H	H	Br
amino acid	H	H	H	I
amino acid	acyl	H	H	H
amino acid	acyl	H	H	NH_2
amino acid	acyl	H	H	NH-cyclopropyl
amino acid	acyl	H	H	NH-methyl
amino acid	acyl	H	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	H	NH-acetyl
amino acid	acyl	H	H	OH
amino acid	acyl	H	H	OMe
amino acid	acyl	H	H	OEt
amino acid	acyl	H	H	O-cyclopropyl
amino acid	acyl	H	H	O-acetyl
amino acid	acyl	H	H	SH
amino acid	acyl	H	H	SMe
amino acid	acyl	H	H	SEt
amino acid	acyl	H	H	S-cyclopropyl
amino acid	acyl	H	H	F
amino acid	acyl	H	H	Cl
amino acid	acyl	H	H	Br
amino acid	acyl	H	H	I
acyl	H	F	H	H
acyl	H	F	H	NH_2
acyl	H	F	H	NH-cyclopropyl
acyl	H	F	H	NH-methyl
acyl	H	F	H	NH-ethyl
acyl	H	F	H	NH-acetyl
acyl	H	F	H	OH
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	H	F	H	O-cyclopropyl
acyl	H	F	H	O-acetyl
acyl	H	F	H	SH
acyl	H	F	H	SMe
acyl	H	F	H	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	H
acyl	acyl	F	H	NH_2
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	H	NH-methyl
acyl	acyl	F	H	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	OH
acyl	acyl	F	H	OMe
acyl	acyl	F	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	H	O-acetyl
acyl	acyl	F	H	SH
acyl	acyl	F	H	SMe
acyl	acyl	F	H	SEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	H	S-cyclopropyl
acyl	acyl	F	H	F
acyl	acyl	F	H	Cl
acyl	acyl	F	H	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	H
acyl	amino acid	F	H	NH_2
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	H	NH-acetyl
acyl	amino acid	F	H	OH
acyl	amino acid	F	H	OMe
acyl	amino acid	F	H	OEt
acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	H	SEt
acyl	amino acid	F	H	S-cyclopropyl
acyl	amino acid	F	H	F
acyl	amino acid	F	H	Cl
acyl	amino acid	F	H	Br
acyl	amino acid	F	H	I
H	acyl	F	H	H
H	acyl	F	H	NH_2
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	H	NH-methyl
H	acyl	F	H	NH-ethyl
H	acyl	F	H	NH-acetyl
H	acyl	F	H	OH
H	acyl	F	H	OMe
H	acyl	F	H	OEt
H	acyl	F	H	O-cyclopropyl
H	acyl	F	H	O-acetyl
H	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
H	acyl	F	H	S-cyclopropyl
H	acyl	F	H	F
H	acyl	F	H	Cl
H	acyl	F	H	Br
H	acyl	F	H	I
H	amino acid	F	H	H
H	amino acid	F	H	NH_2
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	H	NH-ethyl
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
H	amino acid	F	H	OMe
H	amino acid	F	H	OEt
H	amino acid	F	H	O-cyclopropyl
H	amino acid	F	H	O-acetyl
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
H	amino acid	F	H	S-cyclopropyl
H	amino acid	F	H	F
H	amino acid	F	H	Cl
H	amino acid	F	H	Br
H	amino acid	F	H	I
amino acid	amino acid	F	H	H
amino acid	amino acid	F	H	NH_2
amino acid	amino acid	F	H	NH-cyclopropyl
amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	H	NH-acetyl
amino acid	amino acid	F	H	OH
amino acid	amino acid	F	H	OMe
amino acid	amino acid	F	H	OEt
amino acid	amino acid	F	H	O-cyclopropyl
amino acid	amino acid	F	H	O-acetyl
amino acid	amino acid	F	H	SH
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	H	SEt
amino acid	amino acid	F	H	S-cyclopropyl
amino acid	amino acid	F	H	F
amino acid	amino acid	F	H	Cl
amino acid	amino acid	F	H	Br
amino acid	amino acid	F	H	I
amino acid	H	F	H	H
amino acid	H	F	H	NH_2
amino acid	H	F	H	NH-cyclopropyl
amino acid	H	F	H	NH-methyl
amino acid	H	F	H	NH-ethyl
amino acid	H	F	H	NH-acetyl
amino acid	H	F	H	OH
amino acid	H	F	H	OMe
amino acid	H	F	H	OEt
amino acid	H	F	H	O-cyclopropyl
amino acid	H	F	H	O-acetyl
amino acid	H	F	H	SH
amino acid	H	F	H	SMe

R^2	R^3	X^1	X^2	Y
amino acid	H	F	H	SEt
amino acid	H	F	H	S-cyclopropyl
amino acid	H	F	H	F
amino acid	H	F	H	Cl
amino acid	H	F	H	Br
amino acid	H	F	H	I
amino acid	acyl	F	H	H
amino acid	acyl	F	H	NH_2
amino acid	acyl	F	H	NH-cyclopropyl
amino acid	acyl	F	H	NH-methyl
amino acid	acyl	F	H	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	H	OH
amino acid	acyl	F	H	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	H	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	H	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
amino acid	acyl	F	H	I
acyl	H	H	F	H
acyl	H	H	F	NH_2
acyl	H	H	F	NH-cyclopropyl
acyl	H	H	F	NH-methyl
acyl	H	H	F	NH-ethyl
acyl	H	H	F	NH-acetyl
acyl	H	H	F	OH
acyl	H	H	F	OMe
acyl	H	H	F	OEt
acyl	H	H	F	O-cyclopropyl
acyl	H	H	F	O-acetyl
acyl	H	H	F	SH
acyl	H	H	F	SMe
acyl	H	H	F	SEt
acyl	H	H	F	S-cyclopropyl
acyl	H	H	F	F
acyl	H	H	F	Cl
acyl	H	H	F	Br
acyl	H	H	F	I
acyl	acyl	H	F	H
acyl	acyl	H	F	NH_2
acyl	acyl	H	F	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	F	NH-methyl
acyl	acyl	H	F	NH-ethyl
acyl	acyl	H	F	NH-acetyl
acyl	acyl	H	F	OH
acyl	acyl	H	F	OMe
acyl	acyl	H	F	OEt
acyl	acyl	H	F	O-cyclopropyl
acyl	acyl	H	F	O-acetyl
acyl	acyl	H	F	SH
acyl	acyl	H	F	SMe
acyl	acyl	H	F	SEt
acyl	acyl	H	F	S-cyclopropyl
acyl	acyl	H	F	F
acyl	acyl	H	F	Cl
acyl	acyl	H	F	Br
acyl	acyl	H	F	I
acyl	amino acid	H	F	H
acyl	amino acid	H	F	NH_2
acyl	amino acid	H	F	NH-cyclopropyl
acyl	amino acid	H	F	NH-methyl
acyl	amino acid	H	F	NH-ethyl
acyl	amino acid	H	F	NH-acetyl
acyl	amino acid	H	F	OH
acyl	amino acid	H	F	OMe
acyl	amino acid	H	F	OEt
acyl	amino acid	H	F	O-cyclopropyl
acyl	amino acid	H	F	O-acetyl
acyl	amino acid	H	F	SH
acyl	amino acid	H	F	SMe
acyl	amino acid	H	F	SEt
acyl	amino acid	H	F	S-cyclopropyl
acyl	amino acid	H	F	F
acyl	amino acid	H	F	Cl
acyl	amino acid	H	F	Br
acyl	amino acid	H	F	I
H	acyl	H	F	H
H	acyl	H	F	NH_2
H	acyl	H	F	NH-cyclopropyl
H	acyl	H	F	NH-methyl
H	acyl	H	F	NH-ethyl
H	acyl	H	F	NH-acetyl
H	acyl	H	F	OH
H	acyl	H	F	OMe
H	acyl	H	F	OEt
H	acyl	H	F	O-cyclopropyl
H	acyl	H	F	O-acetyl
H	acyl	H	F	SH

R^2	R^3	X^1	X^2	Y
H	acyl	H	F	SMe
H	acyl	H	F	SEt
H	acyl	H	F	S-cyclopropyl
H	acyl	H	F	F
H	acyl	H	F	Cl
H	acyl	H	F	Br
H	acyl	H	F	I
H	amino acid	H	F	H
H	amino acid	H	F	NH_2
H	amino acid	H	F	NH-cyclopropyl
H	amino acid	H	F	NH-methyl
H	amino acid	H	F	NH-ethyl
H	amino acid	H	F	NH-acetyl
H	amino acid	H	F	OH
H	amino acid	H	F	OMe
H	amino acid	H	F	OEt
H	amino acid	H	F	O-cyclopropyl
H	amino acid	H	F	O-acetyl
H	amino acid	H	F	SH
H	amino acid	H	F	SMe
H	amino acid	H	F	SEt
H	amino acid	H	F	S-cyclopropyl
H	amino acid	H	F	F
H	amino acid	H	F	Cl
H	amino acid	H	F	Br
H	amino acid	H	F	I
amino acid	amino acid	H	F	H
amino acid	amino acid	H	F	NH_2
amino acid	amino acid	H	F	NH-cyclopropyl
amino acid	amino acid	H	F	NH-methyl
amino acid	amino acid	H	F	NH-ethyl
amino acid	amino acid	H	F	NH-acetyl
amino acid	amino acid	H	F	OH
amino acid	amino acid	H	F	OMe
amino acid	amino acid	H	F	OEt
amino acid	amino acid	H	F	O-cyclopropyl
amino acid	amino acid	H	F	O-acetyl
amino acid	amino acid	H	F	SH
amino acid	amino acid	H	F	SMe
amino acid	amino acid	H	F	SEt
amino acid	amino acid	H	F	S-cyclopropyl
amino acid	amino acid	H	F	F
amino acid	amino acid	H	F	Cl
amino acid	amino acid	H	F	Br
amino acid	amino acid	H	F	I
amino acid	H	H	F	H
amino acid	H	H	F	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	H	H	F	NH-cyclopropyl
amino acid	H	H	F	NH-methyl
amino acid	H	H	F	NH-ethyl
amino acid	H	H	F	NH-acetyl
amino acid	H	H	F	OH
amino acid	H	H	F	OMe
amino acid	H	H	F	OEt
amino acid	H	H	F	O-cyclopropyl
amino acid	H	H	F	O-acetyl
amino acid	H	H	F	SH
amino acid	H	H	F	SMe
amino acid	H	H	F	SEt
amino acid	H	H	F	S-cyclopropyl
amino acid	H	H	F	F
amino acid	H	H	F	Cl
amino acid	H	H	F	Br
amino acid	H	H	F	I
amino acid	acyl	H	F	H
amino acid	acyl	H	F	NH_2
amino acid	acyl	H	F	NH-cyclopropyl
amino acid	acyl	H	F	NH-methyl
amino acid	acyl	H	F	NH-ethyl
amino acid	acyl	H	F	NH-acetyl
amino acid	acyl	H	F	OH
amino acid	acyl	H	F	OMe
amino acid	acyl	H	F	OEt
amino acid	acyl	H	F	O-cyclopropyl
amino acid	acyl	H	F	O-acetyl
amino acid	acyl	H	F	SH
amino acid	acyl	H	F	SMe
amino acid	acyl	H	F	SEt
amino acid	acyl	H	F	S-cyclopropyl
amino acid	acyl	H	F	F
amino acid	acyl	H	F	Cl
amino acid	acyl	H	F	Br
amino acid	acyl	H	F	I
acyl	H	NH_2	H	H
acyl	H	NH_2	H	NH_2
acyl	H	NH_2	H	NH-cyclopropyl
acyl	H	NH_2	H	NH-methyl
acyl	H	NH_2	H	NH-ethyl
acyl	H	NH_2	H	NH-acetyl
acyl	H	NH_2	H	OH
acyl	H	NH_2	H	OMe
acyl	H	NH_2	H	OEt
acyl	H	NH_2	H	O-cyclopropyl
acyl	H	NH_2	H	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	H	SH
acyl	H	NH_2	H	SMe
acyl	H	NH_2	H	SEt
acyl	H	NH_2	H	S-cyclopropyl
acyl	H	NH_2	H	F
acyl	H	NH_2	H	Cl
acyl	H	NH_2	H	Br
acyl	H	NH_2	H	I
acyl	acyl	NH_2	H	H
acyl	acyl	NH_2	H	NH_2
acyl	acyl	NH_2	H	NH-cyclopropyl
acyl	acyl	NH_2	H	NH-methyl
acyl	acyl	NH_2	H	NH-ethyl
acyl	acyl	NH_2	H	NH-acetyl
acyl	acyl	NH_2	H	OH
acyl	acyl	NH_2	H	OMe
acyl	acyl	NH_2	H	OEt
acyl	acyl	NH_2	H	O-cyclopropyl
acyl	acyl	NH_2	H	O-acetyl
acyl	acyl	NH_2	H	SH
acyl	acyl	NH_2	H	SMe
acyl	acyl	NH_2	H	SEt
acyl	acyl	NH_2	H	S-cyclopropyl
acyl	acyl	NH_2	H	F
acyl	acyl	NH_2	H	Cl
acyl	acyl	NH_2	H	Br
acyl	acyl	NH_2	H	I
acyl	amino acid	NH_2	H	H
acyl	amino acid	NH_2	H	NH_2
acyl	amino acid	NH_2	H	NH-cyclopropyl
acyl	amino acid	NH_2	H	NH-methyl
acyl	amino acid	NH_2	H	NH-ethyl
acyl	amino acid	NH_2	H	NH-acetyl
acyl	amino acid	NH_2	H	OH
acyl	amino acid	NH_2	H	OMe
acyl	amino acid	NH_2	H	OEt
acyl	amino acid	NH_2	H	O-cyclopropyl
acyl	amino acid	NH_2	H	O-acetyl
acyl	amino acid	NH_2	H	SH
acyl	amino acid	NH_2	H	SMe
acyl	amino acid	NH_2	H	SEt
acyl	amino acid	NH_2	H	S-cyclopropyl
acyl	amino acid	NH_2	H	F
acyl	amino acid	NH_2	H	Cl
acyl	amino acid	NH_2	H	Br
acyl	amino acid	NH_2	H	I
H	acyl	NH_2	H	H

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	H	NH_2
H	acyl	NH_2	H	NH-cyclopropyl
H	acyl	NH_2	H	NH-methyl
H	acyl	NH_2	H	NH-ethyl
H	acyl	NH_2	H	NH-acetyl
H	acyl	NH_2	H	OH
H	acyl	NH_2	H	OMe
H	acyl	NH_2	H	OEt
H	acyl	NH_2	H	O-cyclopropyl
H	acyl	NH_2	H	O-acetyl
H	acyl	NH_2	H	SH
H	acyl	NH_2	H	SMe
H	acyl	NH_2	H	SEt
H	acyl	NH_2	H	S-cyclopropyl
H	acyl	NH_2	H	F
H	acyl	NH_2	H	Cl
H	acyl	NH_2	H	Br
H	acyl	NH_2	H	I
H	amino acid	NH_2	H	H
H	amino acid	NH_2	H	NH_2
H	amino acid	NH_2	H	NH-cyclopropyl
H	amino acid	NH_2	H	NH-methyl
H	amino acid	NH_2	H	NH-ethyl
H	amino acid	NH_2	H	NH-acetyl
H	amino acid	NH_2	H	OH
H	amino acid	NH_2	H	OMe
H	amino acid	NH_2	H	OEt
H	amino acid	NH_2	H	O-cyclopropyl
H	amino acid	NH_2	H	O-acetyl
H	amino acid	NH_2	H	SH
H	amino acid	NH_2	H	SMe
H	amino acid	NH_2	H	SEt
H	amino acid	NH_2	H	S-cyclopropyl
H	amino acid	NH_2	H	F
H	amino acid	NH_2	H	Cl
H	amino acid	NH_2	H	Br
H	amino acid	NH_2	H	I
amino acid	amino acid	NH_2	H	H
amino acid	amino acid	NH_2	H	NH_2
amino acid	amino acid	NH_2	H	NH-cyclopropyl
amino acid	amino acid	NH_2	H	NH-methyl
amino acid	amino acid	NH_2	H	NH-ethyl
amino acid	amino acid	NH_2	H	NH-acetyl
amino acid	amino acid	NH_2	H	OH
amino acid	amino acid	NH_2	H	OMe
amino acid	amino acid	NH_2	H	OEt
amino acid	amino acid	NH_2	H	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	H	O-acetyl
amino acid	amino acid	NH_2	H	SH
amino acid	amino acid	NH_2	H	SMe
amino acid	amino acid	NH_2	H	SEt
amino acid	amino acid	NH_2	H	S-cyclopropyl
amino acid	amino acid	NH_2	H	F
amino acid	amino acid	NH_2	H	Cl
amino acid	amino acid	NH_2	H	Br
amino acid	amino acid	NH_2	H	I
amino acid	H	NH_2	H	H
amino acid	H	NH_2	H	NH_2
amino acid	H	NH_2	H	NH-cyclopropyl
amino acid	H	NH_2	H	NH-methyl
amino acid	H	NH_2	H	NH-ethyl
amino acid	H	NH_2	H	NH-acetyl
amino acid	H	NH_2	H	OH
amino acid	H	NH_2	H	OMe
amino acid	H	NH_2	H	OEt
amino acid	H	NH_2	H	O-cyclopropyl
amino acid	H	NH_2	H	O-acetyl
amino acid	H	NH_2	H	SH
amino acid	H	NH_2	H	SMe
amino acid	H	NH_2	H	SEt
amino acid	H	NH_2	H	S-cyclopropyl
amino acid	H	NH_2	H	F
amino acid	H	NH_2	H	Cl
amino acid	H	NH_2	H	Br
amino acid	H	NH_2	H	I
amino acid	acyl	NH_2	H	H
amino acid	acyl	NH_2	H	NH_2
amino acid	acyl	NH_2	H	NH-cyclopropyl
amino acid	acyl	NH_2	H	NH-methyl
amino acid	acyl	NH_2	H	NH-ethyl
amino acid	acyl	NH_2	H	NH-acetyl
amino acid	acyl	NH_2	H	OH
amino acid	acyl	NH_2	H	OMe
amino acid	acyl	NH_2	H	OEt
amino acid	acyl	NH_2	H	O-cyclopropyl
amino acid	acyl	NH_2	H	O-acetyl
amino acid	acyl	NH_2	H	SH
amino acid	acyl	NH_2	H	SMe
amino acid	acyl	NH_2	H	SEt
amino acid	acyl	NH_2	H	S-cyclopropyl
amino acid	acyl	NH_2	H	F
amino acid	acyl	NH_2	H	Cl
amino acid	acyl	NH_2	H	Br
amino acid	acyl	NH_2	H	I

R^2	R^3	X^1	X^2	Y
acyl	H	H	NH_2	H
acyl	H	H	NH_2	NH_2
acyl	H	H	NH_2	NH-cyclopropyl
acyl	H	H	NH_2	NH-methyl
acyl	H	H	NH_2	NH-ethyl
acyl	H	H	NH_2	NH-acetyl
acyl	H	H	NH_2	OH
acyl	H	H	NH_2	OMe
acyl	H	H	NH_2	OEt
acyl	H	H	NH_2	O-cyclopropyl
acyl	H	H	NH_2	O-acetyl
acyl	H	H	NH_2	SH
acyl	H	H	NH_2	SMe
acyl	H	H	NH_2	SEt
acyl	H	H	NH_2	S-cyclopropyl
acyl	H	H	NH_2	F
acyl	H	H	NH_2	Cl
acyl	H	H	NH_2	Br
acyl	H	H	NH_2	I
acyl	acyl	H	NH_2	H
acyl	acyl	H	NH_2	NH_2
acyl	acyl	H	NH_2	NH-cyclopropyl
acyl	acyl	H	NH_2	NH-methyl
acyl	acyl	H	NH_2	NH-ethyl
acyl	acyl	H	NH_2	NH-acetyl
acyl	acyl	H	NH_2	OH
acyl	acyl	H	NH_2	OMe
acyl	acyl	H	NH_2	OEt
acyl	acyl	H	NH_2	O-cyclopropyl
acyl	acyl	H	NH_2	O-acetyl
acyl	acyl	H	NH_2	SH
acyl	acyl	H	NH_2	SMe
acyl	acyl	H	NH_2	SEt
acyl	acyl	H	NH_2	S-cyclopropyl
acyl	acyl	H	NH_2	F
acyl	acyl	H	NH_2	Cl
acyl	acyl	H	NH_2	Br
acyl	acyl	H	NH_2	I
acyl	amino acid	H	NH_2	H
acyl	amino acid	H	NH_2	NH_2
acyl	amino acid	H	NH_2	NH-cyclopropyl
acyl	amino acid	H	NH_2	NH-methyl
acyl	amino acid	H	NH_2	NH-ethyl
acyl	amino acid	H	NH_2	NH-acetyl
acyl	amino acid	H	NH_2	OH
acyl	amino acid	H	NH_2	OMe
acyl	amino acid	H	NH_2	OEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	NH_2	O-cyclopropyl
acyl	amino acid	H	NH_2	O-acetyl
acyl	amino acid	H	NH_2	SH
acyl	amino acid	H	NH_2	SMe
acyl	amino acid	H	NH_2	SEt
acyl	amino acid	H	NH_2	S-cyclopropyl
acyl	amino acid	H	NH_2	F
acyl	amino acid	H	NH_2	Cl
acyl	amino acid	H	NH_2	Br
acyl	amino acid	H	NH_2	I
H	acyl	H	NH_2	H
H	acyl	H	NH_2	NH_2
H	acyl	H	NH_2	NH-cyclopropyl
H	acyl	H	NH_2	NH-methyl
H	acyl	H	NH_2	NH-ethyl
H	acyl	H	NH_2	NH-acetyl
H	acyl	H	NH_2	OH
H	acyl	H	NH_2	OMe
H	acyl	H	NH_2	OEt
H	acyl	H	NH_2	O-cyclopropyl
H	acyl	H	NH_2	O-acetyl
H	acyl	H	NH_2	SH
H	acyl	H	NH_2	SMe
H	acyl	H	NH_2	SEt
H	acyl	H	NH_2	S-cyclopropyl
H	acyl	H	NH_2	F
H	acyl	H	NH_2	Cl
H	acyl	H	NH_2	Br
H	acyl	H	NH_2	I
H	amino acid	H	NH_2	H
H	amino acid	H	NH_2	NH_2
H	amino acid	H	NH_2	NH-cyclopropyl
H	amino acid	H	NH_2	NH-methyl
H	amino acid	H	NH_2	NH-ethyl
H	amino acid	H	NH_2	NH-acetyl
H	amino acid	H	NH_2	OH
H	amino acid	H	NH_2	OMe
H	amino acid	H	NH_2	OEt
H	amino acid	H	NH_2	O-cyclopropyl
H	amino acid	H	NH_2	O-acetyl
H	amino acid	H	NH_2	SH
H	amino acid	H	NH_2	SMe
H	amino acid	H	NH_2	SEt
H	amino acid	H	NH_2	S-cyclopropyl
H	amino acid	H	NH_2	F
H	amino acid	H	NH_2	Cl
H	amino acid	H	NH_2	Br

R^2	R^3	X^1	X^2	Y
H	amino acid	H	NH_2	I
amino acid	amino acid	H	NH_2	H
amino acid	amino acid	H	NH_2	NH_2
amino acid	amino acid	H	NH_2	NH-cyclopropyl
amino acid	amino acid	H	NH_2	NH-methyl
amino acid	amino acid	H	NH_2	NH-ethyl
amino acid	amino acid	H	NH_2	NH-acetyl
amino acid	amino acid	H	NH_2	OH
amino acid	amino acid	H	NH_2	OMe
amino acid	amino acid	H	NH_2	OEt
amino acid	amino acid	H	NH_2	O-cyclopropyl
amino acid	amino acid	H	NH_2	O-acetyl
amino acid	amino acid	H	NH_2	SH
amino acid	amino acid	H	NH_2	SMe
amino acid	amino acid	H	NH_2	SEt
amino acid	amino acid	H	NH_2	S-cyclopropyl
amino acid	amino acid	H	NH_2	F
amino acid	amino acid	H	NH_2	Cl
amino acid	amino acid	H	NH_2	Br
amino acid	amino acid	H	NH_2	I
amino acid	H	H	NH_2	H
amino acid	H	H	NH_2	NH_2
amino acid	H	H	NH_2	NH-cyclopropyl
amino acid	H	H	NH_2	NH-methyl
amino acid	H	H	NH_2	NH-ethyl
amino acid	H	H	NH_2	NH-acetyl
amino acid	H	H	NH_2	OH
amino acid	H	H	NH_2	OMe
amino acid	H	H	NH_2	OEt
amino acid	H	H	NH_2	O-cyclopropyl
amino acid	H	H	NH_2	O-acetyl
amino acid	H	H	NH_2	SH
amino acid	H	H	NH_2	SMe
amino acid	H	H	NH_2	SEt
amino acid	H	H	NH_2	S-cyclopropyl
amino acid	H	H	NH_2	F
amino acid	H	H	NH_2	Cl
amino acid	H	H	NH_2	Br
amino acid	H	H	NH_2	I
amino acid	acyl	H	NH_2	H
amino acid	acyl	H	NH_2	NH_2
amino acid	acyl	H	NH_2	NH-cyclopropyl
amino acid	acyl	H	NH_2	NH-methyl
amino acid	acyl	H	NH_2	NH-ethyl
amino acid	acyl	H	NH_2	NH-acetyl
amino acid	acyl	H	NH_2	OH
amino acid	acyl	H	NH_2	OMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	NH_2	OEt
amino acid	acyl	H	NH_2	O-cyclopropyl
amino acid	acyl	H	NH_2	O-acetyl
amino acid	acyl	H	NH_2	SH
amino acid	acyl	H	NH_2	SMe
amino acid	acyl	H	NH_2	SEt
amino acid	acyl	H	NH_2	S-cyclopropyl
amino acid	acyl	H	NH_2	F
amino acid	acyl	H	NH_2	Cl
amino acid	acyl	H	NH_2	Br
amino acid	acyl	H	NH_2	I
acyl	H	NH_2	NH_2	H
acyl	H	NH_2	NH_2	NH_2
acyl	H	NH_2	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH_2	NH-methyl
acyl	H	NH_2	NH_2	NH-ethyl
acyl	H	NH_2	NH_2	NH-acetyl
acyl	H	NH_2	NH_2	OH
acyl	H	NH_2	NH_2	OMe
acyl	H	NH_2	NH_2	OEt
acyl	H	NH_2	NH_2	O-cyclopropyl
acyl	H	NH_2	NH_2	O-acetyl
acyl	H	NH_2	NH_2	SH
acyl	H	NH_2	NH_2	SMe
acyl	H	NH_2	NH_2	SEt
acyl	H	NH_2	NH_2	S-cyclopropyl
acyl	H	NH_2	NH_2	F
acyl	H	NH_2	NH_2	Cl
acyl	H	NH_2	NH_2	Br
acyl	H	NH_2	NH_2	I
acyl	acyl	NH_2	NH_2	H
acyl	acyl	NH_2	NH_2	NH_2
acyl	acyl	NH_2	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH_2	NH-methyl
acyl	acyl	NH_2	NH_2	NH-ethyl
acyl	acyl	NH_2	NH_2	NH-acetyl
acyl	acyl	NH_2	NH_2	OH
acyl	acyl	NH_2	NH_2	OMe
acyl	acyl	NH_2	NH_2	OEt
acyl	acyl	NH_2	NH_2	O-cyclopropyl
acyl	acyl	NH_2	NH_2	O-acetyl
acyl	acyl	NH_2	NH_2	SH
acyl	acyl	NH_2	NH_2	SMe
acyl	acyl	NH_2	NH_2	SEt
acyl	acyl	NH_2	NH_2	S-cyclopropyl
acyl	acyl	NH_2	NH_2	F
acyl	acyl	NH_2	NH_2	Cl

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	NH_2	Br
acyl	acyl	NH_2	NH_2	I
acyl	amino acid	NH_2	NH_2	H
acyl	amino acid	NH_2	NH_2	NH_2
acyl	amino acid	NH_2	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH_2	NH-methyl
acyl	amino acid	NH_2	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH_2	NH-acetyl
acyl	amino acid	NH_2	NH_2	OH
acyl	amino acid	NH_2	NH_2	OMe
acyl	amino acid	NH_2	NH_2	OEt
acyl	amino acid	NH_2	NH_2	O-cyclopropyl
acyl	amino acid	NH_2	NH_2	O-acetyl
acyl	amino acid	NH_2	NH_2	SH
acyl	amino acid	NH_2	NH_2	SMe
acyl	amino acid	NH_2	NH_2	SEt
acyl	amino acid	NH_2	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	NH_2	F
acyl	amino acid	NH_2	NH_2	Cl
acyl	amino acid	NH_2	NH_2	Br
acyl	amino acid	NH_2	NH_2	I
H	acyl	NH_2	NH_2	H
H	acyl	NH_2	NH_2	NH_2
H	acyl	NH_2	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH_2	NH-methyl
H	acyl	NH_2	NH_2	NH-ethyl
H	acyl	NH_2	NH_2	NH-acetyl
H	acyl	NH_2	NH_2	OH
H	acyl	NH_2	NH_2	OMe
H	acyl	NH_2	NH_2	OEt
H	acyl	NH_2	NH_2	O-cyclopropyl
H	acyl	NH_2	NH_2	O-acetyl
H	acyl	NH_2	NH_2	SH
H	acyl	NH_2	NH_2	SMe
H	acyl	NH_2	NH_2	SEt
H	acyl	NH_2	NH_2	S-cyclopropyl
H	acyl	NH_2	NH_2	F
H	acyl	NH_2	NH_2	Cl
H	acyl	NH_2	NH_2	Br
H	acyl	NH_2	NH_2	I
H	amino acid	NH_2	NH_2	H
H	amino acid	NH_2	NH_2	NH_2
H	amino acid	NH_2	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH_2	NH-methyl
H	amino acid	NH_2	NH_2	NH-ethyl
H	amino acid	NH_2	NH_2	NH-acetyl
H	amino acid	NH_2	NH_2	OH

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	NH_2	OMe
H	amino acid	NH_2	NH_2	OEt
H	amino acid	NH_2	NH_2	O-cyclopropyl
H	amino acid	NH_2	NH_2	O-acetyl
H	amino acid	NH_2	NH_2	SH
H	amino acid	NH_2	NH_2	SMe
H	amino acid	NH_2	NH_2	SEt
H	amino acid	NH_2	NH_2	S-cyclopropyl
H	amino acid	NH_2	NH_2	F
H	amino acid	NH_2	NH_2	Cl
H	amino acid	NH_2	NH_2	Br
H	amino acid	NH_2	NH_2	I
amino acid	amino acid	NH_2	NH_2	H
amino acid	amino acid	NH_2	NH_2	NH_2
amino acid	amino acid	NH_2	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH_2	NH-acetyl
amino acid	amino acid	NH_2	NH_2	OH
amino acid	amino acid	NH_2	NH_2	OMe
amino acid	amino acid	NH_2	NH_2	OEt
amino acid	amino acid	NH_2	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	NH_2	O-acetyl
amino acid	amino acid	NH_2	NH_2	SH
amino acid	amino acid	NH_2	NH_2	SMe
amino acid	amino acid	NH_2	NH_2	SEt
amino acid	amino acid	NH_2	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	NH_2	F
amino acid	amino acid	NH_2	NH_2	Cl
amino acid	amino acid	NH_2	NH_2	Br
amino acid	amino acid	NH_2	NH_2	I
amino acid	H	NH_2	NH_2	H
amino acid	H	NH_2	NH_2	NH_2
amino acid	H	NH_2	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH_2	NH-methyl
amino acid	H	NH_2	NH_2	NH-ethyl
amino acid	H	NH_2	NH_2	NH-acetyl
amino acid	H	NH_2	NH_2	OH
amino acid	H	NH_2	NH_2	OMe
amino acid	H	NH_2	NH_2	OEt
amino acid	H	NH_2	NH_2	O-cyclopropyl
amino acid	H	NH_2	NH_2	O-acetyl
amino acid	H	NH_2	NH_2	SH
amino acid	H	NH_2	NH_2	SMe
amino acid	H	NH_2	NH_2	SEt
amino acid	H	NH_2	NH_2	S-cyclopropyl
amino acid	H	NH_2	NH_2	F

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	NH_2	Cl
amino acid	H	NH_2	NH_2	Br
amino acid	H	NH_2	NH_2	I
amino acid	acyl	NH_2	NH_2	H
amino acid	acyl	NH_2	NH_2	NH_2
amino acid	acyl	NH_2	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH_2	NH-methyl
amino acid	acyl	NH_2	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH_2	NH-acetyl
amino acid	acyl	NH_2	NH_2	OH
amino acid	acyl	NH_2	NH_2	OMe
amino acid	acyl	NH_2	NH_2	OEt
amino acid	acyl	NH_2	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	NH_2	O-acetyl
amino acid	acyl	NH_2	NH_2	SH
amino acid	acyl	NH_2	NH_2	SMe
amino acid	acyl	NH_2	NH_2	SEt
amino acid	acyl	NH_2	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	NH_2	F
amino acid	acyl	NH_2	NH_2	Cl
amino acid	acyl	NH_2	NH_2	Br
amino acid	acyl	NH_2	NH_2	I
acyl	H	OH	NH_2	H
acyl	H	OH	NH_2	NH_2
acyl	H	OH	NH_2	NH-cyclopropyl
acyl	H	OH	NH_2	NH-methyl
acyl	H	OH	NH_2	NH-ethyl
acyl	H	OH	NH_2	NH-acetyl
acyl	H	OH	NH_2	OH
acyl	H	OH	NH_2	OMe
acyl	H	OH	NH_2	OEt
acyl	H	OH	NH_2	O-cyclopropyl
acyl	H	OH	NH_2	O-acetyl
acyl	H	OH	NH_2	SH
acyl	H	OH	NH_2	SMe
acyl	H	OH	NH_2	SEt
acyl	H	OH	NH_2	S-cyclopropyl
acyl	H	OH	NH_2	F
acyl	H	OH	NH_2	Cl
acyl	H	OH	NH_2	Br
acyl	H	OH	NH_2	I
acyl	acyl	OH	NH_2	H
acyl	acyl	OH	NH_2	NH_2
acyl	acyl	OH	NH_2	NH-cyclopropyl
acyl	acyl	OH	NH_2	NH-methyl
acyl	acyl	OH	NH_2	NH-ethyl
acyl	acyl	OH	NH_2	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	NH_2	OH
acyl	acyl	OH	NH_2	OMe
acyl	acyl	OH	NH_2	OEt
acyl	acyl	OH	NH_2	O-cyclopropyl
acyl	acyl	OH	NH_2	O-acetyl
acyl	acyl	OH	NH_2	SH
acyl	acyl	OH	NH_2	SMe
acyl	acyl	OH	NH_2	SEt
acyl	acyl	OH	NH_2	S-cyclopropyl
acyl	acyl	OH	NH_2	F
acyl	acyl	OH	NH_2	Cl
acyl	acyl	OH	NH_2	Br
acyl	acyl	OH	NH_2	I
acyl	amino acid	OH	NH_2	H
acyl	amino acid	OH	NH_2	NH_2
acyl	amino acid	OH	NH_2	NH-cyclopropyl
acyl	amino acid	OH	NH_2	NH-methyl
acyl	amino acid	OH	NH_2	NH-ethyl
acyl	amino acid	OH	NH_2	NH-acetyl
acyl	amino acid	OH	NH_2	OH
acyl	amino acid	OH	NH_2	OMe
acyl	amino acid	OH	NH_2	OEt
acyl	amino acid	OH	NH_2	O-cyclopropyl
acyl	amino acid	OH	NH_2	O-acetyl
acyl	amino acid	OH	NH_2	SH
acyl	amino acid	OH	NH_2	SMe
acyl	amino acid	OH	NH_2	SEt
acyl	amino acid	OH	NH_2	S-cyclopropyl
acyl	amino acid	OH	NH_2	F
acyl	amino acid	OH	NH_2	Cl
acyl	amino acid	OH	NH_2	Br
acyl	amino acid	OH	NH_2	I
H	acyl	OH	NH_2	H
H	acyl	OH	NH_2	NH_2
H	acyl	OH	NH_2	NH-cyclopropyl
H	acyl	OH	NH_2	NH-methyl
H	acyl	OH	NH_2	NH-ethyl
H	acyl	OH	NH_2	NH-acetyl
H	acyl	OH	NH_2	OH
H	acyl	OH	NH_2	OMe
H	acyl	OH	NH_2	OEt
H	acyl	OH	NH_2	O-cyclopropyl
H	acyl	OH	NH_2	O-acetyl
H	acyl	OH	NH_2	SH
H	acyl	OH	NH_2	SMe
H	acyl	OH	NH_2	SEt
H	acyl	OH	NH_2	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	OH	NH_2	F
H	acyl	OH	NH_2	Cl
H	acyl	OH	NH_2	Br
H	acyl	OH	NH_2	I
H	amino acid	OH	NH_2	H
H	amino acid	OH	NH_2	NH_2
H	amino acid	OH	NH_2	NH-cyclopropyl
H	amino acid	OH	NH_2	NH-methyl
H	amino acid	OH	NH_2	NH-ethyl
H	amino acid	OH	NH_2	NH-acetyl
H	amino acid	OH	NH_2	OH
H	amino acid	OH	NH_2	OMe
H	amino acid	OH	NH_2	OEt
H	amino acid	OH	NH_2	O-cyclopropyl
H	amino acid	OH	NH_2	O-acetyl
H	amino acid	OH	NH_2	SH
H	amino acid	OH	NH_2	SMe
H	amino acid	OH	NH_2	SEt
H	amino acid	OH	NH_2	S-cyclopropyl
H	amino acid	OH	NH_2	F
H	amino acid	OH	NH_2	Cl
H	amino acid	OH	NH_2	Br
H	amino acid	OH	NH_2	I
amino acid	amino acid	OH	NH_2	H
amino acid	amino acid	OH	NH_2	NH_2
amino acid	amino acid	OH	NH_2	NH-cyclopropyl
amino acid	amino acid	OH	NH_2	NH-methyl
amino acid	amino acid	OH	NH_2	NH-ethyl
amino acid	amino acid	OH	NH_2	NH-acetyl
amino acid	amino acid	OH	NH_2	OH
amino acid	amino acid	OH	NH_2	OMe
amino acid	amino acid	OH	NH_2	OEt
amino acid	amino acid	OH	NH_2	O-cyclopropyl
amino acid	amino acid	OH	NH_2	O-acetyl
amino acid	amino acid	OH	NH_2	SH
amino acid	amino acid	OH	NH_2	SMe
amino acid	amino acid	OH	NH_2	SEt
amino acid	amino acid	OH	NH_2	S-cyclopropyl
amino acid	amino acid	OH	NH_2	F
amino acid	amino acid	OH	NH_2	Cl
amino acid	amino acid	OH	NH_2	Br
amino acid	amino acid	OH	NH_2	I
amino acid	H	OH	NH_2	H
amino acid	H	OH	NH_2	NH_2
amino acid	H	OH	NH_2	NH-cyclopropyl
amino acid	H	OH	NH_2	NH-methyl
amino acid	H	OH	NH_2	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	NH_2	NH-acetyl
amino acid	H	OH	NH_2	OH
amino acid	H	OH	NH_2	OMe
amino acid	H	OH	NH_2	OEt
amino acid	H	OH	NH_2	O-cyclopropyl
amino acid	H	OH	NH_2	O-acetyl
amino acid	H	OH	NH_2	SH
amino acid	H	OH	NH_2	SMe
amino acid	H	OH	NH_2	SEt
amino acid	H	OH	NH_2	S-cyclopropyl
amino acid	H	OH	NH_2	F
amino acid	H	OH	NH_2	Cl
amino acid	H	OH	NH_2	Br
amino acid	H	OH	NH_2	I
amino acid	acyl	OH	NH_2	H
amino acid	acyl	OH	NH_2	NH_2
amino acid	acyl	OH	NH_2	NH-cyclopropyl
amino acid	acyl	OH	NH_2	NH-methyl
amino acid	acyl	OH	NH_2	NH-ethyl
amino acid	acyl	OH	NH_2	NH-acetyl
amino acid	acyl	OH	NH_2	OH
amino acid	acyl	OH	NH_2	OMe
amino acid	acyl	OH	NH_2	OEt
amino acid	acyl	OH	NH_2	O-cyclopropyl
amino acid	acyl	OH	NH_2	O-acetyl
amino acid	acyl	OH	NH_2	SH
amino acid	acyl	OH	NH_2	SMe
amino acid	acyl	OH	NH_2	SEt
amino acid	acyl	OH	NH_2	S-cyclopropyl
amino acid	acyl	OH	NH_2	F
amino acid	acyl	OH	NH_2	Cl
amino acid	acyl	OH	NH_2	Br
amino acid	acyl	OH	NH_2	I
acyl	H	OH	H	H
acyl	H	OH	H	NH_2
acyl	H	OH	H	NH-cyclopropyl
acyl	H	OH	H	NH-methyl
acyl	H	OH	H	NH-ethyl
acyl	H	OH	H	NH-acetyl
acyl	H	OH	H	OH
acyl	H	OH	H	OMe
acyl	H	OH	H	OEt
acyl	H	OH	H	O-cyclopropyl
acyl	H	OH	H	O-acetyl
acyl	H	OH	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt

R^2	R^3	X^1	X^2	Y
acyl	H	OH	H	S-cyclopropyl
acyl	H	OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH_2
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	H	H
acyl	amino acid	OH	H	NH_2
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	OH
acyl	amino acid	OH	H	OMe
acyl	amino acid	OH	H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	H	O-acetyl
acyl	amino acid	OH	H	SH
acyl	amino acid	OH	H	SMe
acyl	amino acid	OH	H	SEt
acyl	amino acid	OH	H	S-cyclopropyl
acyl	amino acid	OH	H	F
acyl	amino acid	OH	H	Cl
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	H	I
H	acyl	OH	H	H
H	acyl	OH	H	NH_2
H	acyl	OH	H	NH-cyclopropyl
H	acyl	OH	H	NH-methyl

R^2	R^3	X^1	X^2	Y
H	acyl	OH	H	NH-ethyl
H	acyl	OH	H	NH-acetyl
H	acyl	OH	H	OH
H	acyl	OH	H	OMe
H	acyl	OH	H	OEt
H	acyl	OH	H	O-cyclopropyl
H	acyl	OH	H	O-acetyl
H	acyl	OH	H	SH
H	acyl	OH	H	SMe
H	acyl	OH	H	SEt
H	acyl	OH	H	S-cyclopropyl
H	acyl	OH	H	F
H	acyl	OH	H	Cl
H	acyl	OH	H	Br
H	acyl	OH	H	I
H	amino acid	OH	H	H
H	amino acid	OH	H	NH_2
H	amino acid	OH	H	NH-cyclopropyl
H	amino acid	OH	H	NH-methyl
H	amino acid	OH	H	NH-ethyl
H	amino acid	OH	H	NH-acetyl
H	amino acid	OH	H	OH
H	amino acid	OH	H	OMe
H	amino acid	OH	H	OEt
H	amino acid	OH	H	O-cyclopropyl
H	amino acid	OH	H	O-acetyl
H	amino acid	OH	H	SH
H	amino acid	OH	H	SMe
H	amino acid	OH	H	SEt
H	amino acid	OH	H	S-cyclopropyl
H	amino acid	OH	H	F
H	amino acid	OH	H	Cl
H	amino acid	OH	H	Br
H	amino acid	OH	H	I
amino acid	amino acid	OH	H	H
amino acid	amino acid	OH	H	NH_2
amino acid	amino acid	OH	H	NH-cyclopropyl
amino acid	amino acid	OH	H	NH-methyl
amino acid	amino acid	OH	H	NH-ethyl
amino acid	amino acid	OH	H	NH-acetyl
amino acid	amino acid	OH	H	OH
amino acid	amino acid	OH	H	OMe
amino acid	amino acid	OH	H	OEt
amino acid	amino acid	OH	H	O-cyclopropyl
amino acid	amino acid	OH	H	O-acetyl
amino acid	amino acid	OH	H	SH
amino acid	amino acid	OH	H	SMe

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	H	SEt
amino acid	amino acid	OH	H	S-cyclopropyl
amino acid	amino acid	OH	H	F
amino acid	amino acid	OH	H	Cl
amino acid	amino acid	OH	H	Br
amino acid	amino acid	OH	H	I
amino acid	H	OH	H	H
amino acid	H	OH	H	NH_2
amino acid	H	OH	H	NH-cyclopropyl
amino acid	H	OH	H	NH-methyl
amino acid	H	OH	H	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	H	OH	H	OH
amino acid	H	OH	H	OMe
amino acid	H	OH	H	OEt
amino acid	H	OH	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	H	SH
amino acid	H	OH	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	H	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	H	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	H	I
amino acid	acyl	OH	H	H
amino acid	acyl	OH	H	NH_2
amino acid	acyl	OH	H	NH-cyclopropyl
amino acid	acyl	OH	H	NH-methyl
amino acid	acyl	OH	H	NH-ethyl
amino acid	acyl	OH	H	NH-acetyl
amino acid	acyl	OH	H	OH
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	H	SEt
amino acid	acyl	OH	H	S-cyclopropyl
amino acid	acyl	OH	H	F
amino acid	acyl	OH	H	Cl
amino acid	acyl	OH	H	Br
amino acid	acyl	OH	H	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-cyclopropyl
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	H	OH	H
acyl	H	H	OH	NH_2
acyl	H	H	OH	NH-cyclopropyl
acyl	H	H	OH	NH-methyl
acyl	H	H	OH	NH-ethyl
acyl	H	H	OH	NH-acetyl
acyl	H	H	OH	OH
acyl	H	H	OH	OMe
acyl	H	H	OH	OEt
acyl	H	H	OH	O-cyclopropyl
acyl	H	H	OH	O-acetyl
acyl	H	H	OH	SH
acyl	H	H	OH	SMe
acyl	H	H	OH	SEt
acyl	H	H	OH	S-cyclopropyl
acyl	H	H	OH	F
acyl	H	H	OH	Cl
acyl	H	H	OH	Br
acyl	H	H	OH	I
acyl	acyl	H	OH	H
acyl	acyl	H	OH	NH_2
acyl	acyl	H	OH	NH-cyclopropyl
acyl	acyl	H	OH	NH-methyl
acyl	acyl	H	OH	NH-ethyl
acyl	acyl	H	OH	NH-acetyl
acyl	acyl	H	OH	OH
acyl	acyl	H	OH	OMe
acyl	acyl	H	OH	OEt
acyl	acyl	H	OH	O-cyclopropyl
acyl	acyl	H	OH	O-acetyl
acyl	acyl	H	OH	SH
acyl	acyl	H	OH	SMe
acyl	acyl	H	OH	SEt
acyl	acyl	H	OH	S-cyclopropyl
acyl	acyl	H	OH	F
acyl	acyl	H	OH	Cl
acyl	acyl	H	OH	Br
acyl	acyl	H	OH	I
acyl	amino acid	H	OH	H

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	OH	NH_2
acyl	amino acid	H	OH	NH-cyclopropyl
acyl	amino acid	H	OH	NH-methyl
acyl	amino acid	H	OH	NH-ethyl
acyl	amino acid	H	OH	NH-acetyl
acyl	amino acid	H	OH	OH
acyl	amino acid	H	OH	OMe
acyl	amino acid	H	OH	OEt
acyl	amino acid	H	OH	O-cyclopropyl
acyl	amino acid	H	OH	O-acetyl
acyl	amino acid	H	OH	SH
acyl	amino acid	H	OH	SMe
acyl	amino acid	H	OH	SEt
acyl	amino acid	H	OH	S-cyclopropyl
acyl	amino acid	H	OH	F
acyl	amino acid	H	OH	Cl
acyl	amino acid	H	OH	Br
acyl	amino acid	H	OH	I
H	acyl	H	OH	H
H	acyl	H	OH	NH_2
H	acyl	H	OH	NH-cyclopropyl
H	acyl	H	OH	NH-methyl
H	acyl	H	OH	NH-ethyl
H	acyl	H	OH	NH-acetyl
H	acyl	H	OH	OH
H	acyl	H	OH	OMe
H	acyl	H	OH	OEt
H	acyl	H	OH	O-cyclopropyl
H	acyl	H	OH	O-acetyl
H	acyl	H	OH	SH
H	acyl	H	OH	SMe
H	acyl	H	OH	SEt
H	acyl	H	OH	S-cyclopropyl
H	acyl	H	OH	F
H	acyl	H	OH	Cl
H	acyl	H	OH	Br
H	acyl	H	OH	I
H	amino acid	H	OH	H
H	amino acid	H	OH	NH_2
H	amino acid	H	OH	NH-cyclopropyl
H	amino acid	H	OH	NH-methyl
H	amino acid	H	OH	NH-ethyl
H	amino acid	H	OH	NH-acetyl
H	amino acid	H	OH	OH
H	amino acid	H	OH	OMe
H	amino acid	H	OH	OEt
H	amino acid	H	OH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	OH	O-acetyl
H	amino acid	H	OH	SH
H	amino acid	H	OH	SMe
H	amino acid	H	OH	SEt
H	amino acid	H	OH	S-cyclopropyl
H	amino acid	H	OH	F
H	amino acid	H	OH	Cl
H	amino acid	H	OH	Br
H	amino acid	H	OH	I
amino acid	amino acid	H	OH	H
amino acid	amino acid	H	OH	NH_2
amino acid	amino acid	H	OH	NH-cyclopropyl
amino acid	amino acid	H	OH	NH-methyl
amino acid	amino acid	H	OH	NH-ethyl
amino acid	amino acid	H	OH	NH-acetyl
amino acid	amino acid	H	OH	OH
amino acid	amino acid	H	OH	OMe
amino acid	amino acid	H	OH	OEt
amino acid	amino acid	H	OH	O-cyclopropyl
amino acid	amino acid	H	OH	O-acetyl
amino acid	amino acid	H	OH	SH
amino acid	amino acid	H	OH	SMe
amino acid	amino acid	H	OH	SEt
amino acid	amino acid	H	OH	S-cyclopropyl
amino acid	amino acid	H	OH	F
amino acid	amino acid	H	OH	Cl
amino acid	amino acid	H	OH	Br
amino acid	amino acid	H	OH	I
amino acid	H	H	OH	H
amino acid	H	H	OH	NH_2
amino acid	H	H	OH	NH-cyclopropyl
amino acid	H	H	OH	NH-methyl
amino acid	H	H	OH	NH-ethyl
amino acid	H	H	OH	NH-acetyl
amino acid	H	H	OH	OH
amino acid	H	H	OH	OMe
amino acid	H	H	OH	OEt
amino acid	H	H	OH	O-cyclopropyl
amino acid	H	H	OH	O-acetyl
amino acid	H	H	OH	SH
amino acid	H	H	OH	SMe
amino acid	H	H	OH	SEt
amino acid	H	H	OH	S-cyclopropyl
amino acid	H	H	OH	F
amino acid	H	H	OH	Cl
amino acid	H	H	OH	Br
amino acid	H	H	OH	I

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	OH	H
amino acid	acyl	H	OH	NH_2
amino acid	acyl	H	OH	NH-cyclopropyl
amino acid	acyl	H	OH	NH-methyl
amino acid	acyl	H	OH	NH-ethyl
amino acid	acyl	H	OH	NH-acetyl
amino acid	acyl	H	OH	OH
amino acid	acyl	H	OH	OMe
amino acid	acyl	H	OH	OEt
amino acid	acyl	H	OH	O-cyclopropyl
amino acid	acyl	H	OH	O-acetyl
amino acid	acyl	H	OH	SH
amino acid	acyl	H	OH	SMe
amino acid	acyl	H	OH	SEt
amino acid	acyl	H	OH	S-cyclopropyl
amino acid	acyl	H	OH	F
amino acid	acyl	H	OH	Cl
amino acid	acyl	H	OH	Br
amino acid	acyl	H	OH	I
acyl	H	OH	SH	H
acyl	H	OH	SH	NH_2
acyl	H	OH	SH	NH-cyclopropyl
acyl	H	OH	SH	NH-methyl
acyl	H	OH	SH	NH-ethyl
acyl	H	OH	SH	NH-acetyl
acyl	H	OH	SH	OH
acyl	H	OH	SH	OMe
acyl	H	OH	SH	OEt
acyl	H	OH	SH	O-cyclopropyl
acyl	H	OH	SH	O-acetyl
acyl	H	OH	SH	SH
acyl	H	OH	SH	SMe
acyl	H	OH	SH	SEt
acyl	H	OH	SH	S-cyclopropyl
acyl	H	OH	SH	F
acyl	H	OH	SH	Cl
acyl	H	OH	SH	Br
acyl	H	OH	SH	I
acyl	acyl	OH	SH	H
acyl	acyl	OH	SH	NH_2
acyl	acyl	OH	SH	NH-cyclopropyl
acyl	acyl	OH	SH	NH-methyl
acyl	acyl	OH	SH	NH-ethyl
acyl	acyl	OH	SH	NH-acetyl
acyl	acyl	OH	SH	OH
acyl	acyl	OH	SH	OMe
acyl	acyl	OH	SH	OEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	SH	O-cyclopropyl
acyl	acyl	OH	SH	O-acetyl
acyl	acyl	OH	SH	SH
acyl	acyl	OH	SH	SMe
acyl	acyl	OH	SH	SEt
acyl	acyl	OH	SH	S-cyclopropyl
acyl	acyl	OH	SH	F
acyl	acyl	OH	SH	Cl
acyl	acyl	OH	SH	Br
acyl	acyl	OH	SH	I
acyl	amino acid	OH	SH	H
acyl	amino acid	OH	SH	NH_2
acyl	amino acid	OH	SH	NH-cyclopropyl
acyl	amino acid	OH	SH	NH-methyl
acyl	amino acid	OH	SH	NH-ethyl
acyl	amino acid	OH	SH	NH-acetyl
acyl	amino acid	OH	SH	OH
acyl	amino acid	OH	SH	OMe
acyl	amino acid	OH	SH	OEt
acyl	amino acid	OH	SH	O-cyclopropyl
acyl	amino acid	OH	SH	O-acetyl
acyl	amino acid	OH	SH	SH
acyl	amino acid	OH	SH	SMe
acyl	amino acid	OH	SH	SEt
acyl	amino acid	OH	SH	S-cyclopropyl
acyl	amino acid	OH	SH	F
acyl	amino acid	OH	SH	Cl
acyl	amino acid	OH	SH	Br
acyl	amino acid	OH	SH	I
H	acyl	OH	SH	H
H	acyl	OH	SH	NH_2
H	acyl	OH	SH	NH-cyclopropyl
H	acyl	OH	SH	NH-methyl
H	acyl	OH	SH	NH-ethyl
H	acyl	OH	SH	NH-acetyl
H	acyl	OH	SH	OH
H	acyl	OH	SH	OMe
H	acyl	OH	SH	OEt
H	acyl	OH	SH	O-cyclopropyl
H	acyl	OH	SH	O-acetyl
H	acyl	OH	SH	SH
H	acyl	OH	SH	SMe
H	acyl	OH	SH	SEt
H	acyl	OH	SH	S-cyclopropyl
H	acyl	OH	SH	F
H	acyl	OH	SH	Cl
H	acyl	OH	SH	Br

R^2	R^3	X^1	X^2	Y
H	acyl	OH	SH	I
H	amino acid	OH	SH	H
H	amino acid	OH	SH	NH_2
H	amino acid	OH	SH	NH-cyclopropyl
H	amino acid	OH	SH	NH-methyl
H	amino acid	OH	SH	NH-ethyl
H	amino acid	OH	SH	NH-acetyl
H	amino acid	OH	SH	OH
H	amino acid	OH	SH	OMe
H	amino acid	OH	SH	OEt
H	amino acid	OH	SH	O-cyclopropyl
H	amino acid	OH	SH	O-acetyl
H	amino acid	OH	SH	SH
H	amino acid	OH	SH	SMe
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
H	amino acid	OH	SH	Cl
H	amino acid	OH	SH	Br
H	amino acid	OH	SH	I
amino acid	amino acid	OH	SH	H
amino acid	amino acid	OH	SH	NH_2
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	OH	SH	OH
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	OH	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	H	OH	SH	H
amino acid	H	OH	SH	NH_2
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	H	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	H	OH	SH	OH
amino acid	H	OH	SH	OMe

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	SH	OEt
amino acid	H	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	H	OH	SH	SH
amino acid	H	OH	SH	SMe
amino acid	H	OH	SH	SEt
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH_2
amino acid	acyl	OH	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	OH
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyl	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	OH	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	OH	SH	Br
amino acid	acyl	OH	SH	I
acyl	H	SH	OH	H
acyl	H	SH	OH	NH_2
acyl	H	SH	OH	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	OH	OH
acyl	H	SH	OH	OMe
acyl	H	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	H	SH	OH	O-acetyl
acyl	H	SH	OH	SH
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	H	SH	OH	Cl

R^2	R^3	X^1	X^2	Y
acyl	H	SH	OH	Br
acyl	H	SH	OH	I
acyl	acyl	SH	OH	H
acyl	acyl	SH	OH	NH_2
acyl	acyl	SH	OH	NH-cyclopropyl
acyl	acyl	SH	OH	NH-methyl
acyl	acyl	SH	OH	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	OH
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	OH	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	OH	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	OH	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	OH	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	OH	I
acyl	amino acid	SH	OH	H
acyl	amino acid	SH	OH	NH_2
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	OH	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl
acyl	amino acid	SH	OH	Br
acyl	amino acid	SH	OH	I
H	acyl	SH	OH	H
H	acyl	SH	OH	NH_2
H	acyl	SH	OH	NH-cyclopropyl
H	acyl	SH	OH	NH-methyl
H	acyl	SH	OH	NH-ethyl
H	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	OH

R^2	R^3	X^1	X^2	Y
H	acyl	SH	OH	OMe
H	acyl	SH	OH	OEt
H	acyl	SH	OH	O-cyclopropyl
H	acyl	SH	OH	O-acetyl
H	acyl	SH	OH	SH
H	acyl	SH	OH	SMe
H	acyl	SH	OH	SEt
H	acyl	SH	OH	S-cyclopropyl
H	acyl	SH	OH	F
H	acyl	SH	OH	Cl
H	acyl	SH	OH	Br
H	acyl	SH	OH	I
H	amino acid	SH	OH	H
H	amino acid	SH	OH	NH_2
H	amino acid	SH	OH	NH-cyclopropyl
H	amino acid	SH	OH	NH-methyl
H	amino acid	SH	OH	NH-ethyl
H	amino acid	SH	OH	NH-acetyl
H	amino acid	SH	OH	OH
H	amino acid	SH	OH	OMe
H	amino acid	SH	OH	OEt
H	amino acid	SH	OH	O-cyclopropyl
H	amino acid	SH	OH	O-acetyl
H	amino acid	SH	OH	SH
H	amino acid	SH	OH	SMe
H	amino acid	SH	OH	SEt
H	amino acid	SH	OH	S-cyclopropyl
H	amino acid	SH	OH	F
H	amino acid	SH	OH	Cl
H	amino acid	SH	OH	Br
H	amino acid	SH	OH	I
amino acid	amino acid	SH	OH	H
amino acid	amino acid	SH	OH	NH_2
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	OH
amino acid	amino acid	SH	OH	OMe
amino acid	amino acid	SH	OH	OEt
amino acid	amino acid	SH	OH	O-cyclopropyl
amino acid	amino acid	SH	OH	O-acetyl
amino acid	amino acid	SH	OH	SH
amino acid	amino acid	SH	OH	SMe
amino acid	amino acid	SH	OH	SEt
amino acid	amino acid	SH	OH	S-cyclopropyl
amino acid	amino acid	SH	OH	F

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	OH	Cl
amino acid	amino acid	SH	OH	Br
amino acid	amino acid	SH	OH	I
amino acid	H	SH	OH	H
amino acid	H	SH	OH	NH_2
amino acid	H	SH	OH	NH-cyclopropyl
amino acid	H	SH	OH	NH-methyl
amino acid	H	SH	OH	NH-ethyl
amino acid	H	SH	OH	NH-acetyl
amino acid	H	SH	OH	OH
amino acid	H	SH	OH	OMe
amino acid	H	SH	OH	OEt
amino acid	H	SH	OH	O-cyclopropyl
amino acid	H	SH	OH	O-acetyl
amino acid	H	SH	OH	SH
amino acid	H	SH	OH	SMe
amino acid	H	SH	OH	SEt
amino acid	H	SH	OH	S-cyclopropyl
amino acid	H	SH	OH	F
amino acid	H	SH	OH	Cl
amino acid	H	SH	OH	Br
amino acid	H	SH	OH	I
amino acid	acyl	SH	OH	H
amino acid	acyl	SH	OH	NH_2
amino acid	acyl	SH	OH	NH-cyclopropyl
amino acid	acyl	SH	OH	NH-methyl
amino acid	acyl	SH	OH	NH-ethyl
amino acid	acyl	SH	OH	NH-acetyl
amino acid	acyl	SH	OH	OH
amino acid	acyl	SH	OH	OMe
amino acid	acyl	SH	OH	OEt
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	S-cyclopropyl
amino acid	acyl	SH	OH	F
amino acid	acyl	SH	OH	Cl
amino acid	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	H	Br	H	H
acyl	H	Br	H	NH_2
acyl	H	Br	H	NH-cyclopropyl
acyl	H	Br	H	NH-methyl
acyl	H	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	Br	H	OH
acyl	H	Br	H	OMe
acyl	H	Br	H	OEt
acyl	H	Br	H	O-cyclopropyl
acyl	H	Br	H	O-acetyl
acyl	H	Br	H	SH
acyl	H	Br	H	SMe
acyl	H	Br	H	SEt
acyl	H	Br	H	S-cyclopropyl
acyl	H	Br	H	F
acyl	H	Br	H	Cl
acyl	H	Br	H	Br
acyl	H	Br	H	I
acyl	acyl	Br	H	H
acyl	acyl	Br	H	NH_2
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	H	O-cyclopropyl
acyl	acyl	Br	H	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	H	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	H	S-cyclopropyl
acyl	acyl	Br	H	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	amino acid	Br	H	H
acyl	amino acid	Br	H	NH_2
acyl	amino acid	Br	H	NH-cyclopropyl
acyl	amino acid	Br	H	NH-methyl
acyl	amino acid	Br	H	NH-ethyl
acyl	amino acid	Br	H	NH-acetyl
acyl	amino acid	Br	H	OH
acyl	amino acid	Br	H	OMe
acyl	amino acid	Br	H	OEt
acyl	amino acid	Br	H	O-cyclopropyl
acyl	amino acid	Br	H	O-acetyl
acyl	amino acid	Br	H	SH
acyl	amino acid	Br	H	SMe
acyl	amino acid	Br	H	SEt
acyl	amino acid	Br	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	H	F
acyl	amino acid	Br	H	Cl
acyl	amino acid	Br	H	Br
acyl	amino acid	Br	H	I
H	acyl	Br	H	H
H	acyl	Br	H	NH_2
H	acyl	Br	H	NH-cyclopropyl
H	acyl	Br	H	NH-methyl
H	acyl	Br	H	NH-ethyl
H	acyl	Br	H	NH-acetyl
H	acyl	Br	H	OH
H	acyl	Br	H	OMe
H	acyl	Br	H	OEt
H	acyl	Br	H	O-cyclopropyl
H	acyl	Br	H	O-acetyl
H	acyl	Br	H	SH
H	acyl	Br	H	SMe
H	acyl	Br	H	SEt
H	acyl	Br	H	S-cyclopropyl
H	acyl	Br	H	F
H	acyl	Br	H	Cl
H	acyl	Br	H	Br
H	acyl	Br	H	I
H	amino acid	Br	H	H
H	amino acid	Br	H	NH_2
H	amino acid	Br	H	NH-cyclopropyl
H	amino acid	Br	H	NH-methyl
H	amino acid	Br	H	NH-ethyl
H	amino acid	Br	H	NH-acetyl
H	amino acid	Br	H	OH
H	amino acid	Br	H	OMe
H	amino acid	Br	H	OEt
H	amino acid	Br	H	O-cyclopropyl
H	amino acid	Br	H	O-acetyl
H	amino acid	Br	H	SH
H	amino acid	Br	H	SMe
H	amino acid	Br	H	SEt
H	amino acid	Br	H	S-cyclopropyl
H	amino acid	Br	H	F
H	amino acid	Br	H	Cl
H	amino acid	Br	H	Br
H	amino acid	Br	H	I
amino acid	amino acid	Br	H	H
amino acid	amino acid	Br	H	NH_2
amino acid	amino acid	Br	H	NH-cyclopropyl
amino acid	amino acid	Br	H	NH-methyl
amino acid	amino acid	Br	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	H	NH-acetyl
amino acid	amino acid	Br	H	OH
amino acid	amino acid	Br	H	OMe
amino acid	amino acid	Br	H	OEt
amino acid	amino acid	Br	H	O-cyclopropyl
amino acid	amino acid	Br	H	O-acetyl
amino acid	amino acid	Br	H	SH
amino acid	amino acid	Br	H	SMe
amino acid	amino acid	Br	H	SEt
amino acid	amino acid	Br	H	S-cyclopropyl
amino acid	amino acid	Br	H	F
amino acid	amino acid	Br	H	Cl
amino acid	amino acid	Br	H	Br
amino acid	amino acid	Br	H	I
amino acid	H	Br	H	H
amino acid	H	Br	H	NH_2
amino acid	H	Br	H	NH-cyclopropyl
amino acid	H	Br	H	NH-methyl
amino acid	H	Br	H	NH-ethyl
amino acid	H	Br	H	NH-acetyl
amino acid	H	Br	H	OH
amino acid	H	Br	H	OMe
amino acid	H	Br	H	OEt
amino acid	H	Br	H	O-cyclopropyl
amino acid	H	Br	H	O-acetyl
amino acid	H	Br	H	SH
amino acid	H	Br	H	SMe
amino acid	H	Br	H	SEt
amino acid	H	Br	H	S-cyclopropyl
amino acid	H	Br	H	F
amino acid	H	Br	H	Cl
amino acid	H	Br	H	Br
amino acid	H	Br	H	I
amino acid	acyl	Br	H	H
amino acid	acyl	Br	H	NH_2
amino acid	acyl	Br	H	NH-cyclopropyl
amino acid	acyl	Br	H	NH-methyl
amino acid	acyl	Br	H	NH-ethyl
amino acid	acyl	Br	H	NH-acetyl
amino acid	acyl	Br	H	OH
amino acid	acyl	Br	H	OMe
amino acid	acyl	Br	H	OEt
amino acid	acyl	Br	H	O-cyclopropyl
amino acid	acyl	Br	H	O-acetyl
amino acid	acyl	Br	H	SH
amino acid	acyl	Br	H	SMe
amino acid	acyl	Br	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	H	S-cyclopropyl
amino acid	acyl	Br	H	F
amino acid	acyl	Br	H	Cl
amino acid	acyl	Br	H	Br
amino acid	acyl	Br	H	I
acyl	H	Br	Br	H
acyl	H	Br	Br	NH_2
acyl	H	Br	Br	NH-cyclopropyl
acyl	H	Br	Br	NH-methyl
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	H	Br	Br	I
acyl	acyl	Br	Br	H
acyl	acyl	Br	Br	NH_2
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl
acyl	acyl	Br	Br	NH-ethyl
acyl	acyl	Br	Br	NH-acetyl
acyl	acyl	Br	Br	OH
acyl	acyl	Br	Br	OMe
acyl	acyl	Br	Br	OEt
acyl	acyl	Br	Br	O-cyclopropyl
acyl	acyl	Br	Br	O-acetyl
acyl	acyl	Br	Br	SH
acyl	acyl	Br	Br	SMe
acyl	acyl	Br	Br	SEt
acyl	acyl	Br	Br	S-cyclopropyl
acyl	acyl	Br	Br	F
acyl	acyl	Br	Br	Cl
acyl	acyl	Br	Br	Br
acyl	acyl	Br	Br	I
acyl	amino acid	Br	Br	H
acyl	amino acid	Br	Br	NH_2
acyl	amino acid	Br	Br	NH-cyclopropyl
acyl	amino acid	Br	Br	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	Br	NH-ethyl
acyl	amino acid	Br	Br	NH-acetyl
acyl	amino acid	Br	Br	OH
acyl	amino acid	Br	Br	OMe
acyl	amino acid	Br	Br	OEt
acyl	amino acid	Br	Br	O-cyclopropyl
acyl	amino acid	Br	Br	O-acetyl
acyl	amino acid	Br	Br	SH
acyl	amino acid	Br	Br	SMe
acyl	amino acid	Br	Br	SEt
acyl	amino acid	Br	Br	S-cyclopropyl
acyl	amino acid	Br	Br	F
acyl	amino acid	Br	Br	Cl
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	H
H	acyl	Br	Br	NH_2
H	acyl	Br	Br	NH-cyclopropyl
H	acyl	Br	Br	NH-methyl
H	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
H	acyl	Br	Br	OH
H	acyl	Br	Br	OMe
H	acyl	Br	Br	OEt
H	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
H	acyl	Br	Br	SH
H	acyl	Br	Br	SMe
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
H	amino acid	Br	Br	H
H	amino acid	Br	Br	NH_2
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
H	amino acid	Br	Br	NH-ethyl
H	amino acid	Br	Br	NH-acetyl
H	amino acid	Br	Br	OH
H	amino acid	Br	Br	OMe
H	amino acid	Br	Br	OEt
H	amino acid	Br	Br	O-cyclopropyl
H	amino acid	Br	Br	O-acetyl
H	amino acid	Br	Br	SH
H	amino acid	Br	Br	SMe

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	Br	SEt
H	amino acid	Br	Br	S-cyclopropyl
H	amino acid	Br	Br	F
H	amino acid	Br	Br	Cl
H	amino acid	Br	Br	Br
H	amino acid	Br	Br	I
amino acid	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	NH_2
amino acid	amino acid	Br	Br	NH-cyclopropyl
amino acid	amino acid	Br	Br	NH-methyl
amino acid	amino acid	Br	Br	NH-ethyl
amino acid	amino acid	Br	Br	NH-acetyl
amino acid	amino acid	Br	Br	OH
amino acid	amino acid	Br	Br	OMe
amino acid	amino acid	Br	Br	OEt
amino acid	amino acid	Br	Br	O-cyclopropyl
amino acid	amino acid	Br	Br	O-acetyl
amino acid	amino acid	Br	Br	SH
amino acid	amino acid	Br	Br	SMe
amino acid	amino acid	Br	Br	SEt
amino acid	amino acid	Br	Br	S-cyclopropyl
amino acid	amino acid	Br	Br	F
amino acid	amino acid	Br	Br	Cl
amino acid	amino acid	Br	Br	Br
amino acid	amino acid	Br	Br	I
amino acid	H	Br	Br	H
amino acid	H	Br	Br	NH_2
amino acid	H	Br	Br	NH-cyclopropyl
amino acid	H	Br	Br	NH-methyl
amino acid	H	Br	Br	NH-ethyl
amino acid	H	Br	Br	NH-acetyl
amino acid	H	Br	Br	OH
amino acid	H	Br	Br	OMe
amino acid	H	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	H	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	H	Br	Br	SEt
amino acid	H	Br	Br	S-cyclopropyl
amino acid	H	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	H	Br	Br	Br
amino acid	H	Br	Br	I
amino acid	acyl	Br	Br	H
amino acid	acyl	Br	Br	NH_2
amino acid	acyl	Br	Br	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Br	NH-methyl
amino acid	acyl	Br	Br	NH-ethyl
amino acid	acyl	Br	Br	NH-acetyl
amino acid	acyl	Br	Br	OH
amino acid	acyl	Br	Br	OMe
amino acid	acyl	Br	Br	OEt
amino acid	acyl	Br	Br	O-cyclopropyl
amino acid	acyl	Br	Br	O-acetyl
amino acid	acyl	Br	Br	SH
amino acid	acyl	Br	Br	SMe
amino acid	acyl	Br	Br	SEt
amino acid	acyl	Br	Br	S-cyclopropyl
amino acid	acyl	Br	Br	F
amino acid	acyl	Br	Br	Cl
amino acid	acyl	Br	Br	Br
amino acid	acyl	Br	Br	I
acyl	H	H	Br	H
acyl	H	H	Br	NH_2
acyl	H	H	Br	NH-cyclopropyl
acyl	H	H	Br	NH-methyl
acyl	H	H	Br	NH-ethyl
acyl	H	H	Br	NH-acetyl
acyl	H	H	Br	OH
acyl	H	H	Br	OMe
acyl	H	H	Br	OEt
acyl	H	H	Br	O-cyclopropyl
acyl	H	H	Br	O-acetyl
acyl	H	H	Br	SH
acyl	H	H	Br	SMe
acyl	H	H	Br	SEt
acyl	H	H	Br	S-cyclopropyl
acyl	H	H	Br	F
acyl	H	H	Br	Cl
acyl	H	H	Br	Br
acyl	H	H	Br	I
acyl	acyl	H	Br	H
acyl	acyl	H	Br	NH_2
acyl	acyl	H	Br	NH-cyclopropyl
acyl	acyl	H	Br	NH-methyl
acyl	acyl	H	Br	NH-ethyl
acyl	acyl	H	Br	NH-acetyl
acyl	acyl	H	Br	OH
acyl	acyl	H	Br	OMe
acyl	acyl	H	Br	OEt
acyl	acyl	H	Br	O-cyclopropyl
acyl	acyl	H	Br	O-acetyl
acyl	acyl	H	Br	SH

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	Br	SMe
acyl	acyl	H	Br	SEt
acyl	acyl	H	Br	S-cyclopropyl
acyl	acyl	H	Br	F
acyl	acyl	H	Br	Cl
acyl	acyl	H	Br	Br
acyl	acyl	H	Br	I
acyl	amino acid	H	Br	H
acyl	amino acid	H	Br	NH_2
acyl	amino acid	H	Br	NH-cyclopropyl
acyl	amino acid	H	Br	NH-methyl
acyl	amino acid	H	Br	NH-ethyl
acyl	amino acid	H	Br	NH-acetyl
acyl	amino acid	H	Br	OH
acyl	amino acid	H	Br	OMe
acyl	amino acid	H	Br	OEt
acyl	amino acid	H	Br	O-cyclopropyl
acyl	amino acid	H	Br	O-acetyl
acyl	amino acid	H	Br	SH
acyl	amino acid	H	Br	SMe
acyl	amino acid	H	Br	SEt
acyl	amino acid	H	Br	S-cyclopropyl
acyl	amino acid	H	Br	F
acyl	amino acid	H	Br	Cl
acyl	amino acid	H	Br	Br
acyl	amino acid	H	Br	I
H	acyl	H	Br	H
H	acyl	H	Br	NH_2
H	acyl	H	Br	NH-cyclopropyl
H	acyl	H	Br	NH-methyl
H	acyl	H	Br	NH-ethyl
H	acyl	H	Br	NH-acetyl
H	acyl	H	Br	OH
H	acyl	H	Br	OMe
H	acyl	H	Br	OEt
H	acyl	H	Br	O-cyclopropyl
H	acyl	H	Br	O-acetyl
H	acyl	H	Br	SH
H	acyl	H	Br	SMe
H	acyl	H	Br	SEt
H	acyl	H	Br	S-cyclopropyl
H	acyl	H	Br	F
H	acyl	H	Br	Cl
H	acyl	H	Br	Br
H	acyl	H	Br	I
H	amino acid	H	Br	H
H	amino acid	H	Br	NH_2

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Br	NH-cyclopropyl
H	amino acid	H	Br	NH-methyl
H	amino acid	H	Br	NH-ethyl
H	amino acid	H	Br	NH-acetyl
H	amino acid	H	Br	OH
H	amino acid	H	Br	OMe
H	amino acid	H	Br	OEt
H	amino acid	H	Br	O-cyclopropyl
H	amino acid	H	Br	O-acetyl
H	amino acid	H	Br	SH
H	amino acid	H	Br	SMe
H	amino acid	H	Br	SEt
H	amino acid	H	Br	S-cyclopropyl
H	amino acid	H	Br	F
H	amino acid	H	Br	Cl
H	amino acid	H	Br	Br
H	amino acid	H	Br	I
amino acid	amino acid	H	Br	H
amino acid	amino acid	H	Br	NH_2
amino acid	amino acid	H	Br	NH-cyclopropyl
amino acid	amino acid	H	Br	NH-methyl
amino acid	amino acid	H	Br	NH-ethyl
amino acid	amino acid	H	Br	NH-acetyl
amino acid	amino acid	H	Br	OH
amino acid	amino acid	H	Br	OMe
amino acid	amino acid	H	Br	OEt
amino acid	amino acid	H	Br	O-cyclopropyl
amino acid	amino acid	H	Br	O-acetyl
amino acid	amino acid	H	Br	SH
amino acid	amino acid	H	Br	SMe
amino acid	amino acid	H	Br	SEt
amino acid	amino acid	H	Br	S-cyclopropyl
amino acid	amino acid	H	Br	F
amino acid	amino acid	H	Br	Cl
amino acid	amino acid	H	Br	Br
amino acid	amino acid	H	Br	I
amino acid	H	H	Br	H
amino acid	H	H	Br	NH_2
amino acid	H	H	Br	NH-cyclopropyl
amino acid	H	H	Br	NH-methyl
amino acid	H	H	Br	NH-ethyl
amino acid	H	H	Br	NH-acetyl
amino acid	H	H	Br	OH
amino acid	H	H	Br	OMe
amino acid	H	H	Br	OEt
amino acid	H	H	Br	O-cyclopropyl
amino acid	H	H	Br	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	Br	SH
amino acid	H	H	Br	SMe
amino acid	H	H	Br	SEt
amino acid	H	H	Br	S-cyclopropyl
amino acid	H	H	Br	F
amino acid	H	H	Br	Cl
amino acid	H	H	Br	Br
amino acid	H	H	Br	I
amino acid	acyl	H	Br	H
amino acid	acyl	H	Br	NH_2
amino acid	acyl	H	Br	NH-cyclopropyl
amino acid	acyl	H	Br	NH-methyl
amino acid	acyl	H	Br	NH-ethyl
amino acid	acyl	H	Br	NH-acetyl
amino acid	acyl	H	Br	OH
amino acid	acyl	H	Br	OMe
amino acid	acyl	H	Br	OEt
amino acid	acyl	H	Br	O-cyclopropyl
amino acid	acyl	H	Br	O-acetyl
amino acid	acyl	H	Br	SH
amino acid	acyl	H	Br	SMe
amino acid	acyl	H	Br	SEt
amino acid	acyl	H	Br	S-cyclopropyl
amino acid	acyl	H	Br	F
amino acid	acyl	H	Br	Cl
amino acid	acyl	H	Br	Br
amino acid	acyl	H	Br	I
acyl	H	Cl	Br	H
acyl	H	Cl	Br	NH_2
acyl	H	Cl	Br	NH-cyclopropyl
acyl	H	Cl	Br	NH-methyl
acyl	H	Cl	Br	NH-ethyl
acyl	H	Cl	Br	NH-acetyl
acyl	H	Cl	Br	OH
acyl	H	Cl	Br	OMe
acyl	H	Cl	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH
acyl	H	Cl	Br	SMe
acyl	H	Cl	Br	SEt
acyl	H	Cl	Br	S-cyclopropyl
acyl	H	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	H

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	Br	NH_2
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	Cl	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cl	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	amino acid	Cl	Br	H
acyl	amino acid	Cl	Br	NH_2
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	OH
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	Cl	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	Cl	Br	I
H	acyl	Cl	Br	H
H	acyl	Cl	Br	NH_2
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
H	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Br	O-acetyl
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
H	amino acid	Cl	Br	H
H	amino acid	Cl	Br	NH_2
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
H	amino acid	Cl	Br	OMe
H	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
H	amino acid	Cl	Br	O-acetyl
H	amino acid	Cl	Br	SH
H	amino acid	Cl	Br	SMe
H	amino acid	Cl	Br	SEt
H	amino acid	Cl	Br	S-cyclopropyl
H	amino acid	Cl	Br	F
H	amino acid	Cl	Br	Cl
H	amino acid	Cl	Br	Br
H	amino acid	Cl	Br	I
amino acid	amino acid	Cl	Br	H
amino acid	amino acid	Cl	Br	NH_2
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	Cl	Br	NH-acetyl
amino acid	amino acid	Cl	Br	OH
amino acid	amino acid	Cl	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
amino acid	amino acid	Cl	Br	O-acetyl
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	I

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	Br	H
amino acid	H	Cl	Br	NH_2
amino acid	H	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	H	Cl	Br	OH
amino acid	H	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	H	Cl	Br	SEt
amino acid	H	Cl	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	Cl	Br	Br
amino acid	H	Cl	Br	I
amino acid	acyl	Cl	Br	H
amino acid	acyl	Cl	Br	NH_2
amino acid	acyl	Cl	Br	NH-cyclopropyl
amino acid	acyl	Cl	Br	NH-methyl
amino acid	acyl	Cl	Br	NH-ethyl
amino acid	acyl	Cl	Br	NH-acetyl
amino acid	acyl	Cl	Br	OH
amino acid	acyl	Cl	Br	OMe
amino acid	acyl	Cl	Br	OEt
amino acid	acyl	Cl	Br	O-cyclopropyl
amino acid	acyl	Cl	Br	O-acetyl
amino acid	acyl	Cl	Br	SH
amino acid	acyl	Cl	Br	SMe
amino acid	acyl	Cl	Br	SEt
amino acid	acyl	Cl	Br	S-cyclopropyl
amino acid	acyl	Cl	Br	F
amino acid	acyl	Cl	Br	Cl
amino acid	acyl	Cl	Br	Br
amino acid	acyl	Cl	Br	I
acyl	H	Br	Cl	H
acyl	H	Br	Cl	NH_2
acyl	H	Br	Cl	NH-cyclopropyl
acyl	H	Br	Cl	NH-methyl
acyl	H	Br	Cl	NH-ethyl
acyl	H	Br	Cl	NH-acetyl
acyl	H	Br	Cl	OH
acyl	H	Br	Cl	OMe
acyl	H	Br	Cl	OEt

R^2	R^3	X^1	X^2	Y
acyl	H	Br	Cl	O-cyclopropyl
acyl	H	Br	Cl	O-acetyl
acyl	H	Br	Cl	SH
acyl	H	Br	Cl	SMe
acyl	H	Br	Cl	SEt
acyl	H	Br	Cl	S-cyclopropyl
acyl	H	Br	Cl	F
acyl	H	Br	Cl	Cl
acyl	H	Br	Cl	Br
acyl	H	Br	Cl	I
acyl	acyl	Br	Cl	H
acyl	acyl	Br	Cl	NH_2
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	Cl	NH-ethyl
acyl	acyl	Br	Cl	NH-acetyl
acyl	acyl	Br	Cl	OH
acyl	acyl	Br	Cl	OMe
acyl	acyl	Br	Cl	OEt
acyl	acyl	Br	Cl	O-cyclopropyl
acyl	acyl	Br	Cl	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	Cl	I
acyl	amino acid	Br	Cl	H
acyl	amino acid	Br	Cl	NH_2
acyl	amino acid	Br	Cl	NH-cyclopropyl
acyl	amino acid	Br	Cl	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	Cl	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	Cl	F
acyl	amino acid	Br	Cl	Cl
acyl	amino acid	Br	Cl	Br

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	Cl	I
H	acyl	Br	Cl	H
H	acyl	Br	Cl	NH_2
H	acyl	Br	Cl	NH-cyclopropyl
H	acyl	Br	Cl	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	Cl	NH-acetyl
H	acyl	Br	Cl	OH
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH
H	acyl	Br	Cl	SMe
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
H	acyl	Br	Cl	I
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH_2
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
H	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
H	amino acid	Br	Cl	I
amino acid	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH_2
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br	Cl	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	Cl	OEt
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	Cl	O-acetyl
amino acid	amino acid	Br	Cl	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	I
amino acid	H	Br	Cl	H
amino acid	H	Br	Cl	NH_2
amino acid	H	Br	Cl	NH-cyclopropyl
amino acid	H	Br	Cl	NH-methyl
amino acid	H	Br	Cl	NH-ethyl
amino acid	H	Br	Cl	NH-acetyl
amino acid	H	Br	Cl	OH
amino acid	H	Br	Cl	OMe
amino acid	H	Br	Cl	OEt
amino acid	H	Br	Cl	O-cyclopropyl
amino acid	H	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	H	Br	Cl	SEt
amino acid	H	Br	Cl	S-cyclopropyl
amino acid	H	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	H	Br	Cl	I
amino acid	acyl	Br	Cl	H
amino acid	acyl	Br	Cl	NH_2
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	Cl	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH
amino acid	acyl	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	F
amino acid	acyl	Br	Cl	Cl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Cl	Br
amino acid	acyl	Br	Cl	I
acyl	H	H	Cl	H
acyl	H	H	Cl	NH_2
acyl	H	H	Cl	NH-cyclopropyl
acyl	H	H	Cl	NH-methyl
acyl	H	H	Cl	NH-ethyl
acyl	H	H	Cl	NH-acetyl
acyl	H	H	Cl	OH
acyl	H	H	Cl	OMe
acyl	H	H	Cl	OEt
acyl	H	H	Cl	O-cyclopropyl
acyl	H	H	Cl	O-acetyl
acyl	H	H	Cl	SH
acyl	H	H	Cl	SMe
acyl	H	H	Cl	SEt
acyl	H	H	Cl	S-cyclopropyl
acyl	H	H	Cl	F
acyl	H	H	Cl	Cl
acyl	H	H	Cl	Br
acyl	H	H	Cl	I
acyl	acyl	H	Cl	H
acyl	acyl	H	Cl	NH_2
acyl	acyl	H	Cl	NH-cyclopropyl
acyl	acyl	H	Cl	NH-methyl
acyl	acyl	H	Cl	NH-ethyl
acyl	acyl	H	Cl	NH-acetyl
acyl	acyl	H	Cl	OH
acyl	acyl	H	Cl	OMe
acyl	acyl	H	Cl	OEt
acyl	acyl	H	Cl	O-cyclopropyl
acyl	acyl	H	Cl	O-acetyl
acyl	acyl	H	Cl	SH
acyl	acyl	H	Cl	SMe
acyl	acyl	H	Cl	SEt
acyl	acyl	H	Cl	S-cyclopropyl
acyl	acyl	H	Cl	F
acyl	acyl	H	Cl	Cl
acyl	acyl	H	Cl	Br
acyl	acyl	H	Cl	I
acyl	amino acid	H	Cl	H
acyl	amino acid	H	Cl	NH_2
acyl	amino acid	H	Cl	NH-cyclopropyl
acyl	amino acid	H	Cl	NH-methyl
acyl	amino acid	H	Cl	NH-ethyl
acyl	amino acid	H	Cl	NH-acetyl
acyl	amino acid	H	Cl	OH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	Cl	OMe
acyl	amino acid	H	Cl	OEt
acyl	amino acid	H	Cl	O-cyclopropyl
acyl	amino acid	H	Cl	O-acetyl
acyl	amino acid	H	Cl	SH
acyl	amino acid	H	Cl	SMe
acyl	amino acid	H	Cl	SEt
acyl	amino acid	H	Cl	S-cyclopropyl
acyl	amino acid	H	Cl	F
acyl	amino acid	H	Cl	Cl
acyl	amino acid	H	Cl	Br
acyl	amino acid	H	Cl	I
H	acyl	H	Cl	H
H	acyl	H	Cl	NH_2
H	acyl	H	Cl	NH-cyclopropyl
H	acyl	H	Cl	NH-methyl
H	acyl	H	Cl	NH-ethyl
H	acyl	H	Cl	NH-acetyl
H	acyl	H	Cl	OH
H	acyl	H	Cl	OMe
H	acyl	H	Cl	OEt
H	acyl	H	Cl	O-cyclopropyl
H	acyl	H	Cl	O-acetyl
H	acyl	H	Cl	SH
H	acyl	H	Cl	SMe
H	acyl	H	Cl	SEt
H	acyl	H	Cl	S-cyclopropyl
H	acyl	H	Cl	F
H	acyl	H	Cl	Cl
H	acyl	H	Cl	Br
H	acyl	H	Cl	I
H	amino acid	H	Cl	H
H	amino acid	H	Cl	NH_2
H	amino acid	H	Cl	NH-cyclopropyl
H	amino acid	H	Cl	NH-methyl
H	amino acid	H	Cl	NH-ethyl
H	amino acid	H	Cl	NH-acetyl
H	amino acid	H	Cl	OH
H	amino acid	H	Cl	OMe
H	amino acid	H	Cl	OEt
H	amino acid	H	Cl	O-cyclopropyl
H	amino acid	H	Cl	O-acetyl
H	amino acid	H	Cl	SH
H	amino acid	H	Cl	SMe
H	amino acid	H	Cl	SEt
H	amino acid	H	Cl	S-cyclopropyl
H	amino acid	H	Cl	F

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Cl	Cl
H	amino acid	H	Cl	Br
H	amino acid	H	Cl	I
amino acid	amino acid	H	Cl	H
amino acid	amino acid	H	Cl	NH_2
amino acid	amino acid	H	Cl	NH-cyclopropyl
amino acid	amino acid	H	Cl	NH-methyl
amino acid	amino acid	H	Cl	NH-ethyl
amino acid	amino acid	H	Cl	NH-acetyl
amino acid	amino acid	H	Cl	OH
amino acid	amino acid	H	Cl	OMe
amino acid	amino acid	H	Cl	OEt
amino acid	amino acid	H	Cl	O-cyclopropyl
amino acid	amino acid	H	Cl	O-acetyl
amino acid	amino acid	H	Cl	SH
amino acid	amino acid	H	Cl	SMe
amino acid	amino acid	H	Cl	SEt
amino acid	amino acid	H	Cl	S-cyclopropyl
amino acid	amino acid	H	Cl	F
amino acid	amino acid	H	Cl	Cl
amino acid	amino acid	H	Cl	Br
amino acid	amino acid	H	Cl	I
amino acid	H	H	Cl	H
amino acid	H	H	Cl	NH_2
amino acid	H	H	Cl	NH-cyclopropyl
amino acid	H	H	Cl	NH-methyl
amino acid	H	H	Cl	NH-ethyl
amino acid	H	H	Cl	NH-acetyl
amino acid	H	H	Cl	OH
amino acid	H	H	Cl	OMe
amino acid	H	H	Cl	OEt
amino acid	H	H	Cl	O-cyclopropyl
amino acid	H	H	Cl	O-acetyl
amino acid	H	H	Cl	SH
amino acid	H	H	Cl	SMe
amino acid	H	H	Cl	SEt
amino acid	H	H	Cl	S-cyclopropyl
amino acid	H	H	Cl	F
amino acid	H	H	Cl	Cl
amino acid	H	H	Cl	Br
amino acid	H	H	Cl	I
amino acid	acyl	H	Cl	H
amino acid	acyl	H	Cl	NH_2
amino acid	acyl	H	Cl	NH-cyclopropyl
amino acid	acyl	H	Cl	NH-methyl
amino acid	acyl	H	Cl	NH-ethyl
amino acid	acyl	H	Cl	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	Cl	OH
amino acid	acyl	H	Cl	OMe
amino acid	acyl	H	Cl	OEt
amino acid	acyl	H	Cl	O-cyclopropyl
amino acid	acyl	H	Cl	O-acetyl
amino acid	acyl	H	Cl	SH
amino acid	acyl	H	Cl	SMe
amino acid	acyl	H	Cl	SEt
amino acid	acyl	H	Cl	S-cyclopropyl
amino acid	acyl	H	Cl	F
amino acid	acyl	H	Cl	Cl
amino acid	acyl	H	Cl	Br
amino acid	acyl	H	Cl	I
acyl	H	Cl	H	H
acyl	H	Cl	H	NH_2
acyl	H	Cl	H	NH-cyclopropyl
acyl	H	Cl	H	NH-methyl
acyl	H	Cl	H	NH-ethyl
acyl	H	Cl	H	NH-acetyl
acyl	H	Cl	H	OH
acyl	H	Cl	H	OMe
acyl	H	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	H	Cl	H	O-acetyl
acyl	H	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	Cl	H	SEt
acyl	H	Cl	H	S-cyclopropyl
acyl	H	Cl	H	F
acyl	H	Cl	H	Cl
acyl	H	Cl	H	Br
acyl	H	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH_2
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	H	F
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	amino acid	Cl	H	H
acyl	amino acid	Cl	H	NH_2
acyl	amino acid	Cl	H	NH-cyclopropyl
acyl	amino acid	Cl	H	NH-methyl
acyl	amino acid	Cl	H	NH-ethyl
acyl	amino acid	Cl	H	NH-acetyl
acyl	amino acid	Cl	H	OH
acyl	amino acid	Cl	H	OMe
acyl	amino acid	Cl	H	OEt
acyl	amino acid	Cl	H	O-cyclopropyl
acyl	amino acid	Cl	H	O-acetyl
acyl	amino acid	Cl	H	SH
acyl	amino acid	Cl	H	SMe
acyl	amino acid	Cl	H	SEt
acyl	amino acid	Cl	H	S-cyclopropyl
acyl	amino acid	Cl	H	F
acyl	amino acid	Cl	H	Cl
acyl	amino acid	Cl	H	Br
acyl	amino acid	Cl	H	I
H	acyl	Cl	H	H
H	acyl	Cl	H	NH_2
H	acyl	Cl	H	NH-cyclopropyl
H	acyl	Cl	H	NH-methyl
H	acyl	Cl	H	NH-ethyl
H	acyl	Cl	H	NH-acetyl
H	acyl	Cl	H	OH
H	acyl	Cl	H	OMe
H	acyl	Cl	H	OEt
H	acyl	Cl	H	O-cyclopropyl
H	acyl	Cl	H	O-acetyl
H	acyl	Cl	H	SH
H	acyl	Cl	H	SMe
H	acyl	Cl	H	SEt
H	acyl	Cl	H	S-cyclopropyl
H	acyl	Cl	H	F
H	acyl	Cl	H	Cl
H	acyl	Cl	H	Br
H	acyl	Cl	H	I
H	amino acid	Cl	H	H
H	amino acid	Cl	H	NH_2
H	amino acid	Cl	H	NH-cyclopropyl
H	amino acid	Cl	H	NH-methyl
H	amino acid	Cl	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	H	NH-acetyl
H	amino acid	Cl	H	OH
H	amino acid	Cl	H	OMe
H	amino acid	Cl	H	OEt
H	amino acid	Cl	H	O-cyclopropyl
H	amino acid	Cl	H	O-acetyl
H	amino acid	Cl	H	SH
H	amino acid	Cl	H	SMe
H	amino acid	Cl	H	SEt
H	amino acid	Cl	H	S-cyclopropyl
H	amino acid	Cl	H	F
H	amino acid	Cl	H	Cl
H	amino acid	Cl	H	Br
H	amino acid	Cl	H	I
amino acid	amino acid	Cl	H	H
amino acid	amino acid	Cl	H	NH_2
amino acid	amino acid	Cl	H	NH-cyclopropyl
amino acid	amino acid	Cl	H	NH-methyl
amino acid	amino acid	Cl	H	NH-ethyl
amino acid	amino acid	Cl	H	NH-acetyl
amino acid	amino acid	Cl	H	OH
amino acid	amino acid	Cl	H	OMe
amino acid	amino acid	Cl	H	OEt
amino acid	amino acid	Cl	H	O-cyclopropyl
amino acid	amino acid	Cl	H	O-acetyl
amino acid	amino acid	Cl	H	SH
amino acid	amino acid	Cl	H	SMe
amino acid	amino acid	Cl	H	SEt
amino acid	amino acid	Cl	H	S-cyclopropyl
amino acid	amino acid	Cl	H	F
amino acid	amino acid	Cl	H	Cl
amino acid	amino acid	Cl	H	Br
amino acid	amino acid	Cl	H	I
amino acid	H	Cl	H	H
amino acid	H	Cl	H	NH_2
amino acid	H	Cl	H	NH-cyclopropyl
amino acid	H	Cl	H	NH-methyl
amino acid	H	Cl	H	NH-ethyl
amino acid	H	Cl	H	NH-acetyl
amino acid	H	Cl	H	OH
amino acid	H	Cl	H	OMe
amino acid	H	Cl	H	OEt
amino acid	H	Cl	H	O-cyclopropyl
amino acid	H	Cl	H	O-acetyl
amino acid	H	Cl	H	SH
amino acid	H	Cl	H	SMe
amino acid	H	Cl	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	H	S-cyclopropyl
amino acid	H	Cl	H	F
amino acid	H	Cl	H	Cl
amino acid	H	Cl	H	Br
amino acid	H	Cl	H	I
amino acid	acyl	Cl	H	H
amino acid	acyl	Cl	H	NH_2
amino acid	acyl	Cl	H	NH-cyclopropyl
amino acid	acyl	Cl	H	NH-methyl
amino acid	acyl	Cl	H	NH-ethyl
amino acid	acyl	Cl	H	NH-acetyl
amino acid	acyl	Cl	H	OH
amino acid	acyl	Cl	H	OMe
amino acid	acyl	Cl	H	OEt
amino acid	acyl	Cl	H	O-cyclopropyl
amino acid	acyl	Cl	H	O-acetyl
amino acid	acyl	Cl	H	SH
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	Cl	H	F
amino acid	acyl	Cl	H	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	Cl	H	I
acyl	H	Cl	NH_2	H
acyl	H	Cl	NH_2	NH_2
acyl	H	Cl	NH_2	NH-cyclopropyl
acyl	H	Cl	NH_2	NH-methyl
acyl	H	Cl	NH_2	NH-ethyl
acyl	H	Cl	NH_2	NH-acetyl
acyl	H	Cl	NH_2	OH
acyl	H	Cl	NH_2	OMe
acyl	H	Cl	NH_2	OEt
acyl	H	Cl	NH_2	O-cyclopropyl
acyl	H	Cl	NH_2	O-acetyl
acyl	H	Cl	NH_2	SH
acyl	H	Cl	NH_2	SMe
acyl	H	Cl	NH_2	SEt
acyl	H	Cl	NH_2	S-cyclopropyl
acyl	H	Cl	NH_2	F
acyl	H	Cl	NH_2	Cl
acyl	H	Cl	NH_2	Br
acyl	H	Cl	NH_2	I
acyl	acyl	Cl	NH_2	H
acyl	acyl	Cl	NH_2	NH_2
acyl	acyl	Cl	NH_2	NH-cyclopropyl
acyl	acyl	Cl	NH_2	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	NH_2	NH-ethyl
acyl	acyl	Cl	NH_2	NH-acetyl
acyl	acyl	Cl	NH_2	OH
acyl	acyl	Cl	NH_2	OMe
acyl	acyl	Cl	NH_2	OEt
acyl	acyl	Cl	NH_2	O-cyclopropyl
acyl	acyl	Cl	NH_2	O-acetyl
acyl	acyl	Cl	NH_2	SH
acyl	acyl	Cl	NH_2	SMe
acyl	acyl	Cl	NH_2	SEt
acyl	acyl	Cl	NH_2	S-cyclopropyl
acyl	acyl	Cl	NH_2	F
acyl	acyl	Cl	NH_2	Cl
acyl	acyl	Cl	NH_2	Br
acyl	acyl	Cl	NH_2	I
acyl	amino acid	Cl	NH_2	H
acyl	amino acid	Cl	NH_2	NH_2
acyl	amino acid	Cl	NH_2	NH-cyclopropyl
acyl	amino acid	Cl	NH_2	NH-methyl
acyl	amino acid	Cl	NH_2	NH-ethyl
acyl	amino acid	Cl	NH_2	NH-acetyl
acyl	amino acid	Cl	NH_2	OH
acyl	amino acid	Cl	NH_2	OMe
acyl	amino acid	Cl	NH_2	OEt
acyl	amino acid	Cl	NH_2	O-cyclopropyl
acyl	amino acid	Cl	NH_2	O-acetyl
acyl	amino acid	Cl	NH_2	SH
acyl	amino acid	Cl	NH_2	SMe
acyl	amino acid	Cl	NH_2	SEt
acyl	amino acid	Cl	NH_2	S-cyclopropyl
acyl	amino acid	Cl	NH_2	F
acyl	amino acid	Cl	NH_2	Cl
acyl	amino acid	Cl	NH_2	Br
acyl	amino acid	Cl	NH_2	I
H	acyl	Cl	NH_2	H
H	acyl	Cl	NH_2	NH_2
H	acyl	Cl	NH_2	NH-cyclopropyl
H	acyl	Cl	NH_2	NH-methyl
H	acyl	Cl	NH_2	NH-ethyl
H	acyl	Cl	NH_2	NH-acetyl
H	acyl	Cl	NH_2	OH
H	acyl	Cl	NH_2	OMe
H	acyl	Cl	NH_2	OEt
H	acyl	Cl	NH_2	O-cyclopropyl
H	acyl	Cl	NH_2	O-acetyl
H	acyl	Cl	NH_2	SH
H	acyl	Cl	NH_2	SMe

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	NH_2	SEt
H	acyl	Cl	NH_2	S-cyclopropyl
H	acyl	Cl	NH_2	F
H	acyl	Cl	NH_2	Cl
H	acyl	Cl	NH_2	Br
H	acyl	Cl	NH_2	I
H	amino acid	Cl	NH_2	H
H	amino acid	Cl	NH_2	NH_2
H	amino acid	Cl	NH_2	NH-cyclopropyl
H	amino acid	Cl	NH_2	NH-methyl
H	amino acid	Cl	NH_2	NH-ethyl
H	amino acid	Cl	NH_2	NH-acetyl
H	amino acid	Cl	NH_2	OH
H	amino acid	Cl	NH_2	OMe
H	amino acid	Cl	NH_2	OEt
H	amino acid	Cl	NH_2	O-cyclopropyl
H	amino acid	Cl	NH_2	O-acetyl
H	amino acid	Cl	NH_2	SH
H	amino acid	Cl	NH_2	SMe
H	amino acid	Cl	NH_2	SEt
H	amino acid	Cl	NH_2	S-cyclopropyl
H	amino acid	Cl	NH_2	F
H	amino acid	Cl	NH_2	Cl
H	amino acid	Cl	NH_2	Br
H	amino acid	Cl	NH_2	I
amino acid	amino acid	Cl	NH_2	H
amino acid	amino acid	Cl	NH_2	NH_2
amino acid	amino acid	Cl	NH_2	NH-cyclopropyl
amino acid	amino acid	Cl	NH_2	NH-methyl
amino acid	amino acid	Cl	NH_2	NH-ethyl
amino acid	amino acid	Cl	NH_2	NH-acetyl
amino acid	amino acid	Cl	NH_2	OH
amino acid	amino acid	Cl	NH_2	OMe
amino acid	amino acid	Cl	NH_2	OEt
amino acid	amino acid	Cl	NH_2	O-cyclopropyl
amino acid	amino acid	Cl	NH_2	O-acetyl
amino acid	amino acid	Cl	NH_2	SH
amino acid	amino acid	Cl	NH_2	SMe
amino acid	amino acid	Cl	NH_2	SEt
amino acid	amino acid	Cl	NH_2	S-cyclopropyl
amino acid	amino acid	Cl	NH_2	F
amino acid	amino acid	Cl	NH_2	Cl
amino acid	amino acid	Cl	NH_2	Br
amino acid	amino acid	Cl	NH_2	I
amino acid	H	Cl	NH_2	H
amino acid	H	Cl	NH_2	NH_2
amino acid	H	Cl	NH_2	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	NH_2	NH-methyl
amino acid	H	Cl	NH_2	NH-ethyl
amino acid	H	Cl	NH_2	NH-acetyl
amino acid	H	Cl	NH_2	OH
amino acid	H	Cl	NH_2	OMe
amino acid	H	Cl	NH_2	OEt
amino acid	H	Cl	NH_2	O-cyclopropyl
amino acid	H	Cl	NH_2	O-acetyl
amino acid	H	Cl	NH_2	SH
amino acid	H	Cl	NH_2	SMe
amino acid	H	Cl	NH_2	SEt
amino acid	H	Cl	NH_2	S-cyclopropyl
amino acid	H	Cl	NH_2	F
amino acid	H	Cl	NH_2	Cl
amino acid	H	Cl	NH_2	Br
amino acid	H	Cl	NH_2	I
amino acid	acyl	Cl	NH_2	H
amino acid	acyl	Cl	NH_2	NH_2
amino acid	acyl	Cl	NH_2	NH-cyclopropyl
amino acid	acyl	Cl	NH_2	NH-methyl
amino acid	acyl	Cl	NH_2	NH-ethyl
amino acid	acyl	Cl	NH_2	NH-acetyl
amino acid	acyl	Cl	NH_2	OH
amino acid	acyl	Cl	NH_2	OMe
amino acid	acyl	Cl	NH_2	OEt
amino acid	acyl	Cl	NH_2	O-cyclopropyl
amino acid	acyl	Cl	NH_2	O-acetyl
amino acid	acyl	Cl	NH_2	SH
amino acid	acyl	Cl	NH_2	SMe
amino acid	acyl	Cl	NH_2	SEt
amino acid	acyl	Cl	NH_2	S-cyclopropyl
amino acid	acyl	Cl	NH_2	F
amino acid	acyl	Cl	NH_2	Cl
amino acid	acyl	Cl	NH_2	Br
amino acid	acyl	Cl	NH_2	I
acyl	H	SH	NH_2	H
acyl	H	SH	NH_2	NH_2
acyl	H	SH	NH_2	NH-cyclopropyl
acyl	H	SH	NH_2	NH-methyl
acyl	H	SH	NH_2	NH-ethyl
acyl	H	SH	NH_2	NH-acetyl
acyl	H	SH	NH_2	OH
acyl	H	SH	NH_2	OMe
acyl	H	SH	NH_2	OEt
acyl	H	SH	NH_2	O-cyclopropyl
acyl	H	SH	NH_2	O-acetyl
acyl	H	SH	NH_2	SH

R^2	R^3	X^1	X^2	Y
acyl	H	SH	NH_2	SMe
acyl	H	SH	NH_2	SEt
acyl	H	SH	NH_2	S-cyclopropyl
acyl	H	SH	NH_2	F
acyl	H	SH	NH_2	Cl
acyl	H	SH	NH_2	Br
acyl	H	SH	NH_2	I
acyl	acyl	SH	NH_2	H
acyl	acyl	SH	NH_2	NH_2
acyl	acyl	SH	NH_2	NH-cyclopropyl
acyl	acyl	SH	NH_2	NH-methyl
acyl	acyl	SH	NH_2	NH-ethyl
acyl	acyl	SH	NH_2	NH-acetyl
acyl	acyl	SH	NH_2	OH
acyl	acyl	SH	NH_2	OMe
acyl	acyl	SH	NH_2	OEt
acyl	acyl	SH	NH_2	O-cyclopropyl
acyl	acyl	SH	NH_2	O-acetyl
acyl	acyl	SH	NH_2	SH
acyl	acyl	SH	NH_2	SMe
acyl	acyl	SH	NH_2	SEt
acyl	acyl	SH	NH_2	S-cyclopropyl
acyl	acyl	SH	NH_2	F
acyl	acyl	SH	NH_2	Cl
acyl	acyl	SH	NH_2	Br
acyl	acyl	SH	NH_2	I
acyl	amino acid	SH	NH_2	H
acyl	amino acid	SH	NH_2	NH_2
acyl	amino acid	SH	NH_2	NH-cyclopropyl
acyl	amino acid	SH	NH_2	NH-methyl
acyl	amino acid	SH	NH_2	NH-ethyl
acyl	amino acid	SH	NH_2	NH-acetyl
acyl	amino acid	SH	NH_2	OH
acyl	amino acid	SH	NH_2	OMe
acyl	amino acid	SH	NH_2	OEt
acyl	amino acid	SH	NH_2	O-cyclopropyl
acyl	amino acid	SH	NH_2	O-acetyl
acyl	amino acid	SH	NH_2	SH
acyl	amino acid	SH	NH_2	SMe
acyl	amino acid	SH	NH_2	SEt
acyl	amino acid	SH	NH_2	S-cyclopropyl
acyl	amino acid	SH	NH_2	F
acyl	amino acid	SH	NH_2	Cl
acyl	amino acid	SH	NH_2	Br
acyl	amino acid	SH	NH_2	I
H	acyl	SH	NH_2	H
H	acyl	SH	NH_2	NH_2

R^2	R^3	X^1	X^2	Y
H	acyl	SH	NH_2	NH-cyclopropyl
H	acyl	SH	NH_2	NH-methyl
H	acyl	SH	NH_2	NH-ethyl
H	acyl	SH	NH_2	NH-acetyl
H	acyl	SH	NH_2	OH
H	acyl	SH	NH_2	OMe
H	acyl	SH	NH_2	OEt
H	acyl	SH	NH_2	O-cyclopropyl
H	acyl	SH	NH_2	O-acetyl
H	acyl	SH	NH_2	SH
H	acyl	SH	NH_2	SMe
H	acyl	SH	NH_2	SEt
H	acyl	SH	NH_2	S-cyclopropyl
H	acyl	SH	NH_2	F
H	acyl	SH	NH_2	Cl
H	acyl	SH	NH_2	Br
H	acyl	SH	NH_2	I
H	amino acid	SH	NH_2	H
H	amino acid	SH	NH_2	NH_2
H	amino acid	SH	NH_2	NH-cyclopropyl
H	amino acid	SH	NH_2	NH-methyl
H	amino acid	SH	NH_2	NH-ethyl
H	amino acid	SH	NH_2	NH-acetyl
H	amino acid	SH	NH_2	OH
H	amino acid	SH	NH_2	OMe
H	amino acid	SH	NH_2	OEt
H	amino acid	SH	NH_2	O-cyclopropyl
H	amino acid	SH	NH_2	O-acetyl
H	amino acid	SH	NH_2	SH
H	amino acid	SH	NH_2	SMe
H	amino acid	SH	NH_2	SEt
H	amino acid	SH	NH_2	S-cyclopropyl
H	amino acid	SH	NH_2	F
H	amino acid	SH	NH_2	Cl
H	amino acid	SH	NH_2	Br
H	amino acid	SH	NH_2	I
amino acid	amino acid	SH	NH_2	H
amino acid	amino acid	SH	NH_2	NH_2
amino acid	amino acid	SH	NH_2	NH-cyclopropyl
amino acid	amino acid	SH	NH_2	NH-methyl
amino acid	amino acid	SH	NH_2	NH-ethyl
amino acid	amino acid	SH	NH_2	NH-acetyl
amino acid	amino acid	SH	NH_2	OH
amino acid	amino acid	SH	NH_2	OMe
amino acid	amino acid	SH	NH_2	OEt
amino acid	amino acid	SH	NH_2	O-cyclopropyl
amino acid	amino acid	SH	NH_2	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	NH_2	SH
amino acid	amino acid	SH	NH_2	SMe
amino acid	amino acid	SH	NH_2	SEt
amino acid	amino acid	SH	NH_2	S-cyclopropyl
amino acid	amino acid	SH	NH_2	F
amino acid	amino acid	SH	NH_2	Cl
amino acid	amino acid	SH	NH_2	Br
amino acid	amino acid	SH	NH_2	I
amino acid	H	SH	NH_2	H
amino acid	H	SH	NH_2	NH_2
amino acid	H	SH	NH_2	NH-cyclopropyl
amino acid	H	SH	NH_2	NH-methyl
amino acid	H	SH	NH_2	NH-ethyl
amino acid	H	SH	NH_2	NH-acetyl
amino acid	H	SH	NH_2	OH
amino acid	H	SH	NH_2	OMe
amino acid	H	SH	NH_2	OEt
amino acid	H	SH	NH_2	O-cyclopropyl
amino acid	H	SH	NH_2	O-acetyl
amino acid	H	SH	NH_2	SH
amino acid	H	SH	NH_2	SMe
amino acid	H	SH	NH_2	SEt
amino acid	H	SH	NH_2	S-cyclopropyl
amino acid	H	SH	NH_2	F
amino acid	H	SH	NH_2	Cl
amino acid	H	SH	NH_2	Br
amino acid	H	SH	NH_2	I
amino acid	acyl	SH	NH_2	H
amino acid	acyl	SH	NH_2	NH_2
amino acid	acyl	SH	NH_2	NH-cyclopropyl
amino acid	acyl	SH	NH_2	NH-methyl
amino acid	acyl	SH	NH_2	NH-ethyl
amino acid	acyl	SH	NH_2	NH-acetyl
amino acid	acyl	SH	NH_2	OH
amino acid	acyl	SH	NH_2	OMe
amino acid	acyl	SH	NH_2	OEt
amino acid	acyl	SH	NH_2	O-cyclopropyl
amino acid	acyl	SH	NH_2	O-acetyl
amino acid	acyl	SH	NH_2	SH
amino acid	acyl	SH	NH_2	SMe
amino acid	acyl	SH	NH_2	SEt
amino acid	acyl	SH	NH_2	S-cyclopropyl
amino acid	acyl	SH	NH_2	F
amino acid	acyl	SH	NH_2	Cl
amino acid	acyl	SH	NH_2	Br
amino acid	acyl	SH	NH_2	I
acyl	H	Br	NH_2	H

R^2	R^3	X^1	X^2	Y
acyl	H	Br	NH_2	NH_2
acyl	H	Br	NH_2	NH-cyclopropyl
acyl	H	Br	NH_2	NH-methyl
acyl	H	Br	NH_2	NH-ethyl
acyl	H	Br	NH_2	NH-acetyl
acyl	H	Br	NH_2	OH
acyl	H	Br	NH_2	OMe
acyl	H	Br	NH_2	OEt
acyl	H	Br	NH_2	O-cyclopropyl
acyl	H	Br	NH_2	O-acetyl
acyl	H	Br	NH_2	SH
acyl	H	Br	NH_2	SMe
acyl	H	Br	NH_2	SEt
acyl	H	Br	NH_2	S-cyclopropyl
acyl	H	Br	NH_2	F
acyl	H	Br	NH_2	Cl
acyl	H	Br	NH_2	Br
acyl	H	Br	NH_2	I
acyl	acyl	Br	NH_2	H
acyl	acyl	Br	NH_2	NH_2
acyl	acyl	Br	NH_2	NH-cyclopropyl
acyl	acyl	Br	NH_2	NH-methyl
acyl	acyl	Br	NH_2	NH-ethyl
acyl	acyl	Br	NH_2	NH-acetyl
acyl	acyl	Br	NH_2	OH
acyl	acyl	Br	NH_2	OMe
acyl	acyl	Br	NH_2	OEt
acyl	acyl	Br	NH_2	O-cyclopropyl
acyl	acyl	Br	NH_2	O-acetyl
acyl	acyl	Br	NH_2	SH
acyl	acyl	Br	NH_2	SMe
acyl	acyl	Br	NH_2	SEt
acyl	acyl	Br	NH_2	S-cyclopropyl
acyl	acyl	Br	NH_2	F
acyl	acyl	Br	NH_2	Cl
acyl	acyl	Br	NH_2	Br
acyl	acyl	Br	NH_2	I
acyl	amino acid	Br	NH_2	H
acyl	amino acid	Br	NH_2	NH_2
acyl	amino acid	Br	NH_2	NH-cyclopropyl
acyl	amino acid	Br	NH_2	NH-methyl
acyl	amino acid	Br	NH_2	NH-ethyl
acyl	amino acid	Br	NH_2	NH-acetyl
acyl	amino acid	Br	NH_2	OH
acyl	amino acid	Br	NH_2	OMe
acyl	amino acid	Br	NH_2	OEt
acyl	amino acid	Br	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	NH_2	O-acetyl
acyl	amino acid	Br	NH_2	SH
acyl	amino acid	Br	NH_2	SMe
acyl	amino acid	Br	NH_2	SEt
acyl	amino acid	Br	NH_2	S-cyclopropyl
acyl	amino acid	Br	NH_2	F
acyl	amino acid	Br	NH_2	Cl
acyl	amino acid	Br	NH_2	Br
acyl	amino acid	Br	NH_2	I
H	acyl	Br	NH_2	H
H	acyl	Br	NH_2	NH_2
H	acyl	Br	NH_2	NH-cyclopropyl
H	acyl	Br	NH_2	NH-methyl
H	acyl	Br	NH_2	NH-ethyl
H	acyl	Br	NH_2	NH-acetyl
H	acyl	Br	NH_2	OH
H	acyl	Br	NH_2	OMe
H	acyl	Br	NH_2	OEt
H	acyl	Br	NH_2	O-cyclopropyl
H	acyl	Br	NH_2	O-acetyl
H	acyl	Br	NH_2	SH
H	acyl	Br	NH_2	SMe
H	acyl	Br	NH_2	SEt
H	acyl	Br	NH_2	S-cyclopropyl
H	acyl	Br	NH_2	F
H	acyl	Br	NH_2	Cl
H	acyl	Br	NH_2	Br
H	acyl	Br	NH_2	I
H	amino acid	Br	NH_2	H
H	amino acid	Br	NH_2	NH_2
H	amino acid	Br	NH_2	NH-cyclopropyl
H	amino acid	Br	NH_2	NH-methyl
H	amino acid	Br	NH_2	NH-ethyl
H	amino acid	Br	NH_2	NH-acetyl
H	amino acid	Br	NH_2	OH
H	amino acid	Br	NH_2	OMe
H	amino acid	Br	NH_2	OEt
H	amino acid	Br	NH_2	O-cyclopropyl
H	amino acid	Br	NH_2	O-acetyl
H	amino acid	Br	NH_2	SH
H	amino acid	Br	NH_2	SMe
H	amino acid	Br	NH_2	SEt
H	amino acid	Br	NH_2	S-cyclopropyl
H	amino acid	Br	NH_2	F
H	amino acid	Br	NH_2	Cl
H	amino acid	Br	NH_2	Br
H	amino acid	Br	NH_2	I

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	NH_2	H
amino acid	amino acid	Br	NH_2	NH_2
amino acid	amino acid	Br	NH_2	NH-cyclopropyl
amino acid	amino acid	Br	NH_2	NH-methyl
amino acid	amino acid	Br	NH_2	NH-ethyl
amino acid	amino acid	Br	NH_2	NH-acetyl
amino acid	amino acid	Br	NH_2	OH
amino acid	amino acid	Br	NH_2	OMe
amino acid	amino acid	Br	NH_2	OEt
amino acid	amino acid	Br	NH_2	O-cyclopropyl
amino acid	amino acid	Br	NH_2	O-acetyl
amino acid	amino acid	Br	NH_2	SH
amino acid	amino acid	Br	NH_2	SMe
amino acid	amino acid	Br	NH_2	SEt
amino acid	amino acid	Br	NH_2	S-cyclopropyl
amino acid	amino acid	Br	NH_2	F
amino acid	amino acid	Br	NH_2	Cl
amino acid	amino acid	Br	NH_2	Br
amino acid	amino acid	Br	NH_2	I
amino acid	H	Br	NH_2	H
amino acid	H	Br	NH_2	NH_2
amino acid	H	Br	NH_2	NH-cyclopropyl
amino acid	H	Br	NH_2	NH-methyl
amino acid	H	Br	NH_2	NH-ethyl
amino acid	H	Br	NH_2	NH-acetyl
amino acid	H	Br	NH_2	OH
amino acid	H	Br	NH_2	OMe
amino acid	H	Br	NH_2	OEt
amino acid	H	Br	NH_2	O-cyclopropyl
amino acid	H	Br	NH_2	O-acetyl
amino acid	H	Br	NH_2	SH
amino acid	H	Br	NH_2	SMe
amino acid	H	Br	NH_2	SEt
amino acid	H	Br	NH_2	S-cyclopropyl
amino acid	H	Br	NH_2	F
amino acid	H	Br	NH_2	Cl
amino acid	H	Br	NH_2	Br
amino acid	H	Br	NH_2	I
amino acid	acyl	Br	NH_2	H
amino acid	acyl	Br	NH_2	NH_2
amino acid	acyl	Br	NH_2	NH-cyclopropyl
amino acid	acyl	Br	NH_2	NH-methyl
amino acid	acyl	Br	NH_2	NH-ethyl
amino acid	acyl	Br	NH_2	NH-acetyl
amino acid	acyl	Br	NH_2	OH
amino acid	acyl	Br	NH_2	OMe
amino acid	acyl	Br	NH_2	OEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	NH_2	O-cyclopropyl
amino acid	acyl	Br	NH_2	O-acetyl
amino acid	acyl	Br	NH_2	SH
amino acid	acyl	Br	NH_2	SMe
amino acid	acyl	Br	NH_2	SEt
amino acid	acyl	Br	NH_2	S-cyclopropyl
amino acid	acyl	Br	NH_2	F
amino acid	acyl	Br	NH_2	Cl
amino acid	acyl	Br	NH_2	Br
amino acid	acyl	Br	NH_2	I
acyl	H	F	NH_2	H
acyl	H	F	NH_2	NH_2
acyl	H	F	NH_2	NH-cyclopropyl
acyl	H	F	NH_2	NH-methyl
acyl	H	F	NH_2	NH-ethyl
acyl	H	F	NH_2	NH-acetyl
acyl	H	F	NH_2	OH
acyl	H	F	NH_2	OMe
acyl	H	F	NH_2	OEt
acyl	H	F	NH_2	O-cyclopropyl
acyl	H	F	NH_2	O-acetyl
acyl	H	F	NH_2	SH
acyl	H	F	NH_2	SMe
acyl	H	F	NH_2	SEt
acyl	H	F	NH_2	S-cyclopropyl
acyl	H	F	NH_2	F
acyl	H	F	NH_2	Cl
acyl	H	F	NH_2	Br
acyl	H	F	NH_2	I
acyl	acyl	F	NH_2	H
acyl	acyl	F	NH_2	NH_2
acyl	acyl	F	NH_2	NH-cyclopropyl
acyl	acyl	F	NH_2	NH-methyl
acyl	acyl	F	NH_2	NH-ethyl
acyl	acyl	F	NH_2	NH-acetyl
acyl	acyl	F	NH_2	OH
acyl	acyl	F	NH_2	OMe
acyl	acyl	F	NH_2	OEt
acyl	acyl	F	NH_2	O-cyclopropyl
acyl	acyl	F	NH_2	O-acetyl
acyl	acyl	F	NH_2	SH
acyl	acyl	F	NH_2	SMe
acyl	acyl	F	NH_2	SEt
acyl	acyl	F	NH_2	S-cyclopropyl
acyl	acyl	F	NH_2	F
acyl	acyl	F	NH_2	Cl
acyl	acyl	F	NH_2	Br

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	NH_2	I
acyl	amino acid	F	NH_2	H
acyl	amino acid	F	NH_2	NH_2
acyl	amino acid	F	NH_2	NH-cyclopropyl
acyl	amino acid	F	NH_2	NH-methyl
acyl	amino acid	F	NH_2	NH-ethyl
acyl	amino acid	F	NH_2	NH-acetyl
acyl	amino acid	F	NH_2	OH
acyl	amino acid	F	NH_2	OMe
acyl	amino acid	F	NH_2	OEt
acyl	amino acid	F	NH_2	O-cyclopropyl
acyl	amino acid	F	NH_2	O-acetyl
acyl	amino acid	F	NH_2	SH
acyl	amino acid	F	NH_2	SMe
acyl	amino acid	F	NH_2	SEt
acyl	amino acid	F	NH_2	S-cyclopropyl
acyl	amino acid	F	NH_2	F
acyl	amino acid	F	NH_2	Cl
acyl	amino acid	F	NH_2	Br
acyl	amino acid	F	NH_2	I
H	acyl	F	NH_2	H
H	acyl	F	NH_2	NH_2
H	acyl	F	NH_2	NH-cyclopropyl
H	acyl	F	NH_2	NH-methyl
H	acyl	F	NH_2	NH-ethyl
H	acyl	F	NH_2	NH-acetyl
H	acyl	F	NH_2	OH
H	acyl	F	NH_2	OMe
H	acyl	F	NH_2	OEt
H	acyl	F	NH_2	O-cyclopropyl
H	acyl	F	NH_2	O-acetyl
H	acyl	F	NH_2	SH
H	acyl	F	NH_2	SMe
H	acyl	F	NH_2	SEt
H	acyl	F	NH_2	S-cyclopropyl
H	acyl	F	NH_2	F
H	acyl	F	NH_2	Cl
H	acyl	F	NH_2	Br
H	acyl	F	NH_2	I
H	amino acid	F	NH_2	H
H	amino acid	F	NH_2	NH_2
H	amino acid	F	NH_2	NH-cyclopropyl
H	amino acid	F	NH_2	NH-methyl
H	amino acid	F	NH_2	NH-ethyl
H	amino acid	F	NH_2	NH-acetyl
H	amino acid	F	NH_2	OH
H	amino acid	F	NH_2	OMe

R^2	R^3	X^1	X^2	Y
H	amino acid	F	NH_2	OEt
H	amino acid	F	NH_2	O-cyclopropyl
H	amino acid	F	NH_2	O-acetyl
H	amino acid	F	NH_2	SH
H	amino acid	F	NH_2	SMe
H	amino acid	F	NH_2	SEt
H	amino acid	F	NH_2	S-cyclopropyl
H	amino acid	F	NH_2	F
H	amino acid	F	NH_2	Cl
H	amino acid	F	NH_2	Br
H	amino acid	F	NH_2	I
amino acid	amino acid	F	NH_2	H
amino acid	amino acid	F	NH_2	NH_2
amino acid	amino acid	F	NH_2	NH-cyclopropyl
amino acid	amino acid	F	NH_2	NH-methyl
amino acid	amino acid	F	NH_2	NH-ethyl
amino acid	amino acid	F	NH_2	NH-acetyl
amino acid	amino acid	F	NH_2	OH
amino acid	amino acid	F	NH_2	OMe
amino acid	amino acid	F	NH_2	OEt
amino acid	amino acid	F	NH_2	O-cyclopropyl
amino acid	amino acid	F	NH_2	O-acetyl
amino acid	amino acid	F	NH_2	SH
amino acid	amino acid	F	NH_2	SMe
amino acid	amino acid	F	NH_2	SEt
amino acid	amino acid	F	NH_2	S-cyclopropyl
amino acid	amino acid	F	NH_2	F
amino acid	amino acid	F	NH_2	Cl
amino acid	amino acid	F	NH_2	Br
amino acid	amino acid	F	NH_2	I
amino acid	H	F	NH_2	H
amino acid	H	F	NH_2	NH_2
amino acid	H	F	NH_2	NH-cyclopropyl
amino acid	H	F	NH_2	NH-methyl
amino acid	H	F	NH_2	NH-ethyl
amino acid	H	F	NH_2	NH-acetyl
amino acid	H	F	NH_2	OH
amino acid	H	F	NH_2	OMe
amino acid	H	F	NH_2	OEt
amino acid	H	F	NH_2	O-cyclopropyl
amino acid	H	F	NH_2	O-acetyl
amino acid	H	F	NH_2	SH
amino acid	H	F	NH_2	SMe
amino acid	H	F	NH_2	SEt
amino acid	H	F	NH_2	S-cyclopropyl
amino acid	H	F	NH_2	F
amino acid	H	F	NH_2	Cl

R^2	R^3	X^1	X^2	Y
amino acid	H	F	NH_2	Br
amino acid	H	F	NH_2	I
amino acid	acyl	F	NH_2	H
amino acid	acyl	F	NH_2	NH_2
amino acid	acyl	F	NH_2	NH-cyclopropyl
amino acid	acyl	F	NH_2	NH-methyl
amino acid	acyl	F	NH_2	NH-ethyl
amino acid	acyl	F	NH_2	NH-acetyl
amino acid	acyl	F	NH_2	OH
amino acid	acyl	F	NH_2	OMe
amino acid	acyl	F	NH_2	OEt
amino acid	acyl	F	NH_2	O-cyclopropyl
amino acid	acyl	F	NH_2	O-acetyl
amino acid	acyl	F	NH_2	SH
amino acid	acyl	F	NH_2	SMe
amino acid	acyl	F	NH_2	SEt
amino acid	acyl	F	NH_2	S-cyclopropyl
amino acid	acyl	F	NH_2	F
amino acid	acyl	F	NH_2	Cl
amino acid	acyl	F	NH_2	Br
amino acid	acyl	F	NH_2	I
acyl	H	NH_2	F	H
acyl	H	NH_2	F	NH_2
acyl	H	NH_2	F	NH-cyclopropyl
acyl	H	NH_2	F	NH-methyl
acyl	H	NH_2	F	NH-ethyl
acyl	H	NH_2	F	NH-acetyl
acyl	H	NH_2	F	OH
acyl	H	NH_2	F	OMe
acyl	H	NH_2	F	OEt
acyl	H	NH_2	F	O-cyclopropyl
acyl	H	NH_2	F	O-acetyl
acyl	H	NH_2	F	SH
acyl	H	NH_2	F	SMe
acyl	H	NH_2	F	SEt
acyl	H	NH_2	F	S-cyclopropyl
acyl	H	NH_2	F	F
acyl	H	NH_2	F	Cl
acyl	H	NH_2	F	Br
acyl	H	NH_2	F	I
acyl	acyl	NH_2	F	H
acyl	acyl	NH_2	F	NH_2
acyl	acyl	NH_2	F	NH-cyclopropyl
acyl	acyl	NH_2	F	NH-methyl
acyl	acyl	NH_2	F	NH-ethyl
acyl	acyl	NH_2	F	NH-acetyl
acyl	acyl	NH_2	F	OH

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	F	OMe
acyl	acyl	NH_2	F	OEt
acyl	acyl	NH_2	F	O-cyclopropyl
acyl	acyl	NH_2	F	O-acetyl
acyl	acyl	NH_2	F	SH
acyl	acyl	NH_2	F	SMe
acyl	acyl	NH_2	F	SEt
acyl	acyl	NH_2	F	S-cyclopropyl
acyl	acyl	NH_2	F	F
acyl	acyl	NH_2	F	Cl
acyl	acyl	NH_2	F	Br
acyl	acyl	NH_2	F	I
acyl	amino acid	NH_2	F	H
acyl	amino acid	NH_2	F	NH_2
acyl	amino acid	NH_2	F	NH-cyclopropyl
acyl	amino acid	NH_2	F	NH-methyl
acyl	amino acid	NH_2	F	NH-ethyl
acyl	amino acid	NH_2	F	NH-acetyl
acyl	amino acid	NH_2	F	OH
acyl	amino acid	NH_2	F	OMe
acyl	amino acid	NH_2	F	OEt
acyl	amino acid	NH_2	F	O-cyclopropyl
acyl	amino acid	NH_2	F	O-acetyl
acyl	amino acid	NH_2	F	SH
acyl	amino acid	NH_2	F	SMe
acyl	amino acid	NH_2	F	SEt
acyl	amino acid	NH_2	F	S-cyclopropyl
acyl	amino acid	NH_2	F	F
acyl	amino acid	NH_2	F	Cl
acyl	amino acid	NH_2	F	Br
acyl	amino acid	NH_2	F	I
H	acyl	NH_2	F	H
H	acyl	NH_2	F	NH_2
H	acyl	NH_2	F	NH-cyclopropyl
H	acyl	NH_2	F	NH-methyl
H	acyl	NH_2	F	NH-ethyl
H	acyl	NH_2	F	NH-acetyl
H	acyl	NH_2	F	OH
H	acyl	NH_2	F	OMe
H	acyl	NH_2	F	OEt
H	acyl	NH_2	F	O-cyclopropyl
H	acyl	NH_2	F	O-acetyl
H	acyl	NH_2	F	SH
H	acyl	NH_2	F	SMe
H	acyl	NH_2	F	SEt
H	acyl	NH_2	F	S-cyclopropyl
H	acyl	NH_2	F	F

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	F	Cl
H	acyl	NH_2	F	Br
H	acyl	NH_2	F	I
H	amino acid	NH_2	F	H
H	amino acid	NH_2	F	NH_2
H	amino acid	NH_2	F	NH-cyclopropyl
H	amino acid	NH_2	F	NH-methyl
H	amino acid	NH_2	F	NH-ethyl
H	amino acid	NH_2	F	NH-acetyl
H	amino acid	NH_2	F	OH
H	amino acid	NH_2	F	OMe
H	amino acid	NH_2	F	OEt
H	amino acid	NH_2	F	O-cyclopropyl
H	amino acid	NH_2	F	O-acetyl
H	amino acid	NH_2	F	SH
H	amino acid	NH_2	F	SMe
H	amino acid	NH_2	F	SEt
H	amino acid	NH_2	F	S-cyclopropyl
H	amino acid	NH_2	F	F
H	amino acid	NH_2	F	Cl
H	amino acid	NH_2	F	Br
H	amino acid	NH_2	F	I
amino acid	amino acid	NH_2	F	H
amino acid	amino acid	NH_2	F	NH_2
amino acid	amino acid	NH_2	F	NH-cyclopropyl
amino acid	amino acid	NH_2	F	NH-methyl
amino acid	amino acid	NH_2	F	NH-ethyl
amino acid	amino acid	NH_2	F	NH-acetyl
amino acid	amino acid	NH_2	F	OH
amino acid	amino acid	NH_2	F	OMe
amino acid	amino acid	NH_2	F	OEt
amino acid	amino acid	NH_2	F	O-cyclopropyl
amino acid	amino acid	NH_2	F	O-acetyl
amino acid	amino acid	NH_2	F	SH
amino acid	amino acid	NH_2	F	SMe
amino acid	amino acid	NH_2	F	SEt
amino acid	amino acid	NH_2	F	S-cyclopropyl
amino acid	amino acid	NH_2	F	F
amino acid	amino acid	NH_2	F	Cl
amino acid	amino acid	NH_2	F	Br
amino acid	amino acid	NH_2	F	I
amino acid	H	NH_2	F	H
amino acid	H	NH_2	F	NH_2
amino acid	H	NH_2	F	NH-cyclopropyl
amino acid	H	NH_2	F	NH-methyl
amino acid	H	NH_2	F	NH-ethyl
amino acid	H	NH_2	F	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	F	OH
amino acid	H	NH_2	F	OMe
amino acid	H	NH_2	F	OEt
amino acid	H	NH_2	F	O-cyclopropyl
amino acid	H	NH_2	F	O-acetyl
amino acid	H	NH_2	F	SH
amino acid	H	NH_2	F	SMe
amino acid	H	NH_2	F	SEt
amino acid	H	NH_2	F	S-cyclopropyl
amino acid	H	NH_2	F	F
amino acid	H	NH_2	F	Cl
amino acid	H	NH_2	F	Br
amino acid	H	NH_2	F	I
amino acid	acyl	NH_2	F	H
amino acid	acyl	NH_2	F	NH_2
amino acid	acyl	NH_2	F	NH-cyclopropyl
amino acid	acyl	NH_2	F	NH-methyl
amino acid	acyl	NH_2	F	NH-ethyl
amino acid	acyl	NH_2	F	NH-acetyl
amino acid	acyl	NH_2	F	OH
amino acid	acyl	NH_2	F	OMe
amino acid	acyl	NH_2	F	OEt
amino acid	acyl	NH_2	F	O-cyclopropyl
amino acid	acyl	NH_2	F	O-acetyl
amino acid	acyl	NH_2	F	SH
amino acid	acyl	NH_2	F	SMe
amino acid	acyl	NH_2	F	SEt
amino acid	acyl	NH_2	F	S-cyclopropyl
amino acid	acyl	NH_2	F	F
amino acid	acyl	NH_2	F	Cl
amino acid	acyl	NH_2	F	Br
amino acid	acyl	NH_2	F	I
acyl	H	NH_2	Br	H
acyl	H	NH_2	Br	NH_2
acyl	H	NH_2	Br	NH-cyclopropyl
acyl	H	NH_2	Br	NH-methyl
acyl	H	NH_2	Br	NH-ethyl
acyl	H	NH_2	Br	NH-acetyl
acyl	H	NH_2	Br	OH
acyl	H	NH_2	Br	OMe
acyl	H	NH_2	Br	OEt
acyl	H	NH_2	Br	O-cyclopropyl
acyl	H	NH_2	Br	O-acetyl
acyl	H	NH_2	Br	SH
acyl	H	NH_2	Br	SMe
acyl	H	NH_2	Br	SEt
acyl	H	NH_2	Br	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Br	F
acyl	H	NH_2	Br	Cl
acyl	H	NH_2	Br	Br
acyl	H	NH_2	Br	I
acyl	acyl	NH_2	Br	H
acyl	acyl	NH_2	Br	NH_2
acyl	acyl	NH_2	Br	NH-cyclopropyl
acyl	acyl	NH_2	Br	NH-methyl
acyl	acyl	NH_2	Br	NH-ethyl
acyl	acyl	NH_2	Br	NH-acetyl
acyl	acyl	NH_2	Br	OH
acyl	acyl	NH_2	Br	OMe
acyl	acyl	NH_2	Br	OEt
acyl	acyl	NH_2	Br	O-cyclopropyl
acyl	acyl	NH_2	Br	O-acetyl
acyl	acyl	NH_2	Br	SH
acyl	acyl	NH_2	Br	SMe
acyl	acyl	NH_2	Br	SEt
acyl	acyl	NH_2	Br	S-cyclopropyl
acyl	acyl	NH_2	Br	F
acyl	acyl	NH_2	Br	Cl
acyl	acyl	NH_2	Br	Br
acyl	acyl	NH_2	Br	I
acyl	amino acid	NH_2	Br	H
acyl	amino acid	NH_2	Br	NH_2
acyl	amino acid	NH_2	Br	NH-cyclopropyl
acyl	amino acid	NH_2	Br	NH-methyl
acyl	amino acid	NH_2	Br	NH-ethyl
acyl	amino acid	NH_2	Br	NH-acetyl
acyl	amino acid	NH_2	Br	OH
acyl	amino acid	NH_2	Br	OMe
acyl	amino acid	NH_2	Br	OEt
acyl	amino acid	NH_2	Br	O-cyclopropyl
acyl	amino acid	NH_2	Br	O-acetyl
acyl	amino acid	NH_2	Br	SH
acyl	amino acid	NH_2	Br	SMe
acyl	amino acid	NH_2	Br	SEt
acyl	amino acid	NH_2	Br	S-cyclopropyl
acyl	amino acid	NH_2	Br	F
acyl	amino acid	NH_2	Br	Cl
acyl	amino acid	NH_2	Br	Br
acyl	amino acid	NH_2	Br	I
H	acyl	NH_2	Br	H
H	acyl	NH_2	Br	NH_2
H	acyl	NH_2	Br	NH-cyclopropyl
H	acyl	NH_2	Br	NH-methyl
H	acyl	NH_2	Br	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	Br	NH-acetyl
H	acyl	NH_2	Br	OH
H	acyl	NH_2	Br	OMe
H	acyl	NH_2	Br	OEt
H	acyl	NH_2	Br	O-cyclopropyl
H	acyl	NH_2	Br	O-acetyl
H	acyl	NH_2	Br	SH
H	acyl	NH_2	Br	SMe
H	acyl	NH_2	Br	SEt
H	acyl	NH_2	Br	S-cyclopropyl
H	acyl	NH_2	Br	F
H	acyl	NH_2	Br	Cl
H	acyl	NH_2	Br	Br
H	acyl	NH_2	Br	I
H	amino acid	NH_2	Br	H
H	amino acid	NH_2	Br	NH_2
H	amino acid	NH_2	Br	NH-cyclopropyl
H	amino acid	NH_2	Br	NH-methyl
H	amino acid	NH_2	Br	NH-ethyl
H	amino acid	NH_2	Br	NH-acetyl
H	amino acid	NH_2	Br	OH
H	amino acid	NH_2	Br	OMe
H	amino acid	NH_2	Br	OEt
H	amino acid	NH_2	Br	O-cyclopropyl
H	amino acid	NH_2	Br	O-acetyl
H	amino acid	NH_2	Br	SH
H	amino acid	NH_2	Br	SMe
H	amino acid	NH_2	Br	SEt
H	amino acid	NH_2	Br	S-cyclopropyl
H	amino acid	NH_2	Br	F
H	amino acid	NH_2	Br	Cl
H	amino acid	NH_2	Br	Br
H	amino acid	NH_2	Br	I
amino acid	amino acid	NH_2	Br	H
amino acid	amino acid	NH_2	Br	NH_2
amino acid	amino acid	NH_2	Br	NH-cyclopropyl
amino acid	amino acid	NH_2	Br	NH-methyl
amino acid	amino acid	NH_2	Br	NH-ethyl
amino acid	amino acid	NH_2	Br	NH-acetyl
amino acid	amino acid	NH_2	Br	OH
amino acid	amino acid	NH_2	Br	OMe
amino acid	amino acid	NH_2	Br	OEt
amino acid	amino acid	NH_2	Br	O-cyclopropyl
amino acid	amino acid	NH_2	Br	O-acetyl
amino acid	amino acid	NH_2	Br	SH
amino acid	amino acid	NH_2	Br	SMe
amino acid	amino acid	NH_2	Br	SEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Br	S-cyclopropyl
amino acid	amino acid	NH_2	Br	F
amino acid	amino acid	NH_2	Br	Cl
amino acid	amino acid	NH_2	Br	Br
amino acid	amino acid	NH_2	Br	I
amino acid	H	NH_2	Br	H
amino acid	H	NH_2	Br	NH_2
amino acid	H	NH_2	Br	NH-cyclopropyl
amino acid	H	NH_2	Br	NH-methyl
amino acid	H	NH_2	Br	NH-ethyl
amino acid	H	NH_2	Br	NH-acetyl
amino acid	H	NH_2	Br	OH
amino acid	H	NH_2	Br	OMe
amino acid	H	NH_2	Br	OEt
amino acid	H	NH_2	Br	O-cyclopropyl
amino acid	H	NH_2	Br	O-acetyl
amino acid	H	NH_2	Br	SH
amino acid	H	NH_2	Br	SMe
amino acid	H	NH_2	Br	SEt
amino acid	H	NH_2	Br	S-cyclopropyl
amino acid	H	NH_2	Br	F
amino acid	H	NH_2	Br	Cl
amino acid	H	NH_2	Br	Br
amino acid	H	NH_2	Br	I
amino acid	acyl	NH_2	Br	H
amino acid	acyl	NH_2	Br	NH_2
amino acid	acyl	NH_2	Br	NH-cyclopropyl
amino acid	acyl	NH_2	Br	NH-methyl
amino acid	acyl	NH_2	Br	NH-ethyl
amino acid	acyl	NH_2	Br	NH-acetyl
amino acid	acyl	NH_2	Br	OH
amino acid	acyl	NH_2	Br	OMe
amino acid	acyl	NH_2	Br	OEt
amino acid	acyl	NH_2	Br	O-cyclopropyl
amino acid	acyl	NH_2	Br	O-acetyl
amino acid	acyl	NH_2	Br	SH
amino acid	acyl	NH_2	Br	SMe
amino acid	acyl	NH_2	Br	SEt
amino acid	acyl	NH_2	Br	S-cyclopropyl
amino acid	acyl	NH_2	Br	F
amino acid	acyl	NH_2	Br	Cl
amino acid	acyl	NH_2	Br	Br
amino acid	acyl	NH_2	Br	I
acyl	H	NH_2	Cl	H
acyl	H	NH_2	Cl	NH_2
acyl	H	NH_2	Cl	NH-cyclopropyl
acyl	H	NH_2	Cl	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Cl	NH-ethyl
acyl	H	NH_2	Cl	NH-acetyl
acyl	H	NH_2	Cl	OH
acyl	H	NH_2	Cl	OMe
acyl	H	NH_2	Cl	OEt
acyl	H	NH_2	Cl	O-cyclopropyl
acyl	H	NH_2	Cl	O-acetyl
acyl	H	NH_2	Cl	SH
acyl	H	NH_2	Cl	SMe
acyl	H	NH_2	Cl	SEt
acyl	H	NH_2	Cl	S-cyclopropyl
acyl	H	NH_2	Cl	F
acyl	H	NH_2	Cl	Cl
acyl	H	NH_2	Cl	Br
acyl	H	NH_2	Cl	I
acyl	acyl	NH_2	Cl	H
acyl	acyl	NH_2	Cl	NH_2
acyl	acyl	NH_2	Cl	NH-cyclopropyl
acyl	acyl	NH_2	Cl	NH-methyl
acyl	acyl	NH_2	Cl	NH-ethyl
acyl	acyl	NH_2	Cl	NH-acetyl
acyl	acyl	NH_2	Cl	OH
acyl	acyl	NH_2	Cl	OMe
acyl	acyl	NH_2	Cl	OEt
acyl	acyl	NH_2	Cl	O-cyclopropyl
acyl	acyl	NH_2	Cl	O-acetyl
acyl	acyl	NH_2	Cl	SH
acyl	acyl	NH_2	Cl	SMe
acyl	acyl	NH_2	Cl	SEt
acyl	acyl	NH_2	Cl	S-cyclopropyl
acyl	acyl	NH_2	Cl	F
acyl	acyl	NH_2	Cl	Cl
acyl	acyl	NH_2	Cl	Br
acyl	acyl	NH_2	Cl	I
acyl	amino acid	NH_2	Cl	H
acyl	amino acid	NH_2	Cl	NH_2
acyl	amino acid	NH_2	Cl	NH-cyclopropyl
acyl	amino acid	NH_2	Cl	NH-methyl
acyl	amino acid	NH_2	Cl	NH-ethyl
acyl	amino acid	NH_2	Cl	NH-acetyl
acyl	amino acid	NH_2	Cl	OH
acyl	amino acid	NH_2	Cl	OMe
acyl	amino acid	NH_2	Cl	OEt
acyl	amino acid	NH_2	Cl	O-cyclopropyl
acyl	amino acid	NH_2	Cl	O-acetyl
acyl	amino acid	NH_2	Cl	SH
acyl	amino acid	NH_2	Cl	SMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	Cl	SEt
acyl	amino acid	NH_2	Cl	S-cyclopropyl
acyl	amino acid	NH_2	Cl	F
acyl	amino acid	NH_2	Cl	Cl
acyl	amino acid	NH_2	Cl	Br
acyl	amino acid	NH_2	Cl	I
H	acyl	NH_2	Cl	H
H	acyl	NH_2	Cl	NH_2
H	acyl	NH_2	Cl	NH-cyclopropyl
H	acyl	NH_2	Cl	NH-methyl
H	acyl	NH_2	Cl	NH-ethyl
H	acyl	NH_2	Cl	NH-acetyl
H	acyl	NH_2	Cl	OH
H	acyl	NH_2	Cl	OMe
H	acyl	NH_2	Cl	OEt
H	acyl	NH_2	Cl	O-cyclopropyl
H	acyl	NH_2	Cl	O-acetyl
H	acyl	NH_2	Cl	SH
H	acyl	NH_2	Cl	SMe
H	acyl	NH_2	Cl	SEt
H	acyl	NH_2	Cl	S-cyclopropyl
H	acyl	NH_2	Cl	F
H	acyl	NH_2	Cl	Cl
H	acyl	NH_2	Cl	Br
H	acyl	NH_2	Cl	I
H	amino acid	NH_2	Cl	H
H	amino acid	NH_2	Cl	NH_2
H	amino acid	NH_2	Cl	NH-cyclopropyl
H	amino acid	NH_2	Cl	NH-methyl
H	amino acid	NH_2	Cl	NH-ethyl
H	amino acid	NH_2	Cl	NH-acetyl
H	amino acid	NH_2	Cl	OH
H	amino acid	NH_2	Cl	OMe
H	amino acid	NH_2	Cl	OEt
H	amino acid	NH_2	Cl	O-cyclopropyl
H	amino acid	NH_2	Cl	O-acetyl
H	amino acid	NH_2	Cl	SH
H	amino acid	NH_2	Cl	SMe
H	amino acid	NH_2	Cl	SEt
H	amino acid	NH_2	Cl	S-cyclopropyl
H	amino acid	NH_2	Cl	F
H	amino acid	NH_2	Cl	Cl
H	amino acid	NH_2	Cl	Br
H	amino acid	NH_2	Cl	I
amino acid	amino acid	NH_2	Cl	H
amino acid	amino acid	NH_2	Cl	NH_2
amino acid	amino acid	NH_2	Cl	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Cl	NH-methyl
amino acid	amino acid	NH_2	Cl	NH-ethyl
amino acid	amino acid	NH_2	Cl	NH-acetyl
amino acid	amino acid	NH_2	Cl	OH
amino acid	amino acid	NH_2	Cl	OMe
amino acid	amino acid	NH_2	Cl	OEt
amino acid	amino acid	NH_2	Cl	O-cyclopropyl
amino acid	amino acid	NH_2	Cl	O-acetyl
amino acid	amino acid	NH_2	Cl	SH
amino acid	amino acid	NH_2	Cl	SMe
amino acid	amino acid	NH_2	Cl	SEt
amino acid	amino acid	NH_2	Cl	S-cyclopropyl
amino acid	amino acid	NH_2	Cl	F
amino acid	amino acid	NH_2	Cl	Cl
amino acid	amino acid	NH_2	Cl	Br
amino acid	amino acid	NH_2	Cl	I
amino acid	H	NH_2	Cl	H
amino acid	H	NH_2	Cl	NH_2
amino acid	H	NH_2	Cl	NH-cyclopropyl
amino acid	H	NH_2	Cl	NH-methyl
amino acid	H	NH_2	Cl	NH-ethyl
amino acid	H	NH_2	Cl	NH-acetyl
amino acid	H	NH_2	Cl	OH
amino acid	H	NH_2	Cl	OMe
amino acid	H	NH_2	Cl	OEt
amino acid	H	NH_2	Cl	O-cyclopropyl
amino acid	H	NH_2	Cl	O-acetyl
amino acid	H	NH_2	Cl	SH
amino acid	H	NH_2	Cl	SMe
amino acid	H	NH_2	Cl	SEt
amino acid	H	NH_2	Cl	S-cyclopropyl
amino acid	H	NH_2	Cl	F
amino acid	H	NH_2	Cl	Cl
amino acid	H	NH_2	Cl	Br
amino acid	H	NH_2	Cl	I
amino acid	acyl	NH_2	Cl	H
amino acid	acyl	NH_2	Cl	NH_2
amino acid	acyl	NH_2	Cl	NH-cyclopropyl
amino acid	acyl	NH_2	Cl	NH-methyl
amino acid	acyl	NH_2	Cl	NH-ethyl
amino acid	acyl	NH_2	Cl	NH-acetyl
amino acid	acyl	NH_2	Cl	OH
amino acid	acyl	NH_2	Cl	OMe
amino acid	acyl	NH_2	Cl	OEt
amino acid	acyl	NH_2	Cl	O-cyclopropyl
amino acid	acyl	NH_2	Cl	O-acetyl
amino acid	acyl	NH_2	Cl	SH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	Cl	SMe
amino acid	acyl	NH_2	Cl	SEt
amino acid	acyl	NH_2	Cl	S-cyclopropyl
amino acid	acyl	NH_2	Cl	F
amino acid	acyl	NH_2	Cl	Cl
amino acid	acyl	NH_2	Cl	Br
amino acid	acyl	NH_2	Cl	I
acyl	H	NH_2	SH	H
acyl	H	NH_2	SH	NH_2
acyl	H	NH_2	SH	NH-cyclopropyl
acyl	H	NH_2	SH	NH-methyl
acyl	H	NH_2	SH	NH-ethyl
acyl	H	NH_2	SH	NH-acetyl
acyl	H	NH_2	SH	OH
acyl	H	NH_2	SH	OMe
acyl	H	NH_2	SH	OEt
acyl	H	NH_2	SH	O-cyclopropyl
acyl	H	NH_2	SH	O-acetyl
acyl	H	NH_2	SH	SH
acyl	H	NH_2	SH	SMe
acyl	H	NH_2	SH	SEt
acyl	H	NH_2	SH	S-cyclopropyl
acyl	H	NH_2	SH	F
acyl	H	NH_2	SH	Cl
acyl	H	NH_2	SH	Br
acyl	H	NH_2	SH	I
acyl	acyl	NH_2	SH	H
acyl	acyl	NH_2	SH	NH_2
acyl	acyl	NH_2	SH	NH-cyclopropyl
acyl	acyl	NH_2	SH	NH-methyl
acyl	acyl	NH_2	SH	NH-ethyl
acyl	acyl	NH_2	SH	NH-acetyl
acyl	acyl	NH_2	SH	OH
acyl	acyl	NH_2	SH	OMe
acyl	acyl	NH_2	SH	OEt
acyl	acyl	NH_2	SH	O-cyclopropyl
acyl	acyl	NH_2	SH	O-acetyl
acyl	acyl	NH_2	SH	SH
acyl	acyl	NH_2	SH	SMe
acyl	acyl	NH_2	SH	SEt
acyl	acyl	NH_2	SH	S-cyclopropyl
acyl	acyl	NH_2	SH	F
acyl	acyl	NH_2	SH	Cl
acyl	acyl	NH_2	SH	Br
acyl	acyl	NH_2	SH	I
acyl	amino acid	NH_2	SH	H
acyl	amino acid	NH_2	SH	NH_2

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	SH	NH-cyclopropyl
acyl	amino acid	NH_2	SH	NH-methyl
acyl	amino acid	NH_2	SH	NH-ethyl
acyl	amino acid	NH_2	SH	NH-acetyl
acyl	amino acid	NH_2	SH	OH
acyl	amino acid	NH_2	SH	OMe
acyl	amino acid	NH_2	SH	OEt
acyl	amino acid	NH_2	SH	O-cyclopropyl
acyl	amino acid	NH_2	SH	O-acetyl
acyl	amino acid	NH_2	SH	SH
acyl	amino acid	NH_2	SH	SMe
acyl	amino acid	NH_2	SH	SEt
acyl	amino acid	NH_2	SH	S-cyclopropyl
acyl	amino acid	NH_2	SH	F
acyl	amino acid	NH_2	SH	Cl
acyl	amino acid	NH_2	SH	Br
acyl	amino acid	NH_2	SH	I
H	acyl	NH_2	SH	H
H	acyl	NH_2	SH	NH_2
H	acyl	NH_2	SH	NH-cyclopropyl
H	acyl	NH_2	SH	NH-methyl
H	acyl	NH_2	SH	NH-ethyl
H	acyl	NH_2	SH	NH-acetyl
H	acyl	NH_2	SH	OH
H	acyl	NH_2	SH	OMe
H	acyl	NH_2	SH	OEt
H	acyl	NH_2	SH	O-cyclopropyl
H	acyl	NH_2	SH	O-acetyl
H	acyl	NH_2	SH	SH
H	acyl	NH_2	SH	SMe
H	acyl	NH_2	SH	SEt
H	acyl	NH_2	SH	S-cyclopropyl
H	acyl	NH_2	SH	F
H	acyl	NH_2	SH	Cl
H	acyl	NH_2	SH	Br
H	acyl	NH_2	SH	I
H	amino acid	NH_2	SH	H
H	amino acid	NH_2	SH	NH_2
H	amino acid	NH_2	SH	NH-cyclopropyl
H	amino acid	NH_2	SH	NH-methyl
H	amino acid	NH_2	SH	NH-ethyl
H	amino acid	NH_2	SH	NH-acetyl
H	amino acid	NH_2	SH	OH
H	amino acid	NH_2	SH	OMe
H	amino acid	NH_2	SH	OEt
H	amino acid	NH_2	SH	O-cyclopropyl
H	amino acid	NH_2	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	SH	SH
H	amino acid	NH_2	SH	SMe
H	amino acid	NH_2	SH	SEt
H	amino acid	NH_2	SH	S-cyclopropyl
H	amino acid	NH_2	SH	F
H	amino acid	NH_2	SH	Cl
H	amino acid	NH_2	SH	Br
H	amino acid	NH_2	SH	I
amino acid	amino acid	NH_2	SH	H
amino acid	amino acid	NH_2	SH	NH_2
amino acid	amino acid	NH_2	SH	NH-cyclopropyl
amino acid	amino acid	NH_2	SH	NH-methyl
amino acid	amino acid	NH_2	SH	NH-ethyl
amino acid	amino acid	NH_2	SH	NH-acetyl
amino acid	amino acid	NH_2	SH	OH
amino acid	amino acid	NH_2	SH	OMe
amino acid	amino acid	NH_2	SH	OEt
amino acid	amino acid	NH_2	SH	O-cyclopropyl
amino acid	amino acid	NH_2	SH	O-acetyl
amino acid	amino acid	NH_2	SH	SH
amino acid	amino acid	NH_2	SH	SMe
amino acid	amino acid	NH_2	SH	SEt
amino acid	amino acid	NH_2	SH	S-cyclopropyl
amino acid	amino acid	NH_2	SH	F
amino acid	amino acid	NH_2	SH	Cl
amino acid	amino acid	NH_2	SH	Br
amino acid	amino acid	NH_2	SH	I
amino acid	H	NH_2	SH	H
amino acid	H	NH_2	SH	NH_2
amino acid	H	NH_2	SH	NH-cyclopropyl
amino acid	H	NH_2	SH	NH-methyl
amino acid	H	NH_2	SH	NH-ethyl
amino acid	H	NH_2	SH	NH-acetyl
amino acid	H	NH_2	SH	OH
amino acid	H	NH_2	SH	OMe
amino acid	H	NH_2	SH	OEt
amino acid	H	NH_2	SH	O-cyclopropyl
amino acid	H	NH_2	SH	O-acetyl
amino acid	H	NH_2	SH	SH
amino acid	H	NH_2	SH	SMe
amino acid	H	NH_2	SH	SEt
amino acid	H	NH_2	SH	S-cyclopropyl
amino acid	H	NH_2	SH	F
amino acid	H	NH_2	SH	Cl
amino acid	H	NH_2	SH	Br
amino acid	H	NH_2	SH	I
amino acid	acyl	NH_2	SH	H

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	SH	NH_2
amino acid	acyl	NH_2	SH	NH-cyclopropyl
amino acid	acyl	NH_2	SH	NH-methyl
amino acid	acyl	NH_2	SH	NH-ethyl
amino acid	acyl	NH_2	SH	NH-acetyl
amino acid	acyl	NH_2	SH	OH
amino acid	acyl	NH_2	SH	OMe
amino acid	acyl	NH_2	SH	OEt
amino acid	acyl	NH_2	SH	O-cyclopropyl
amino acid	acyl	NH_2	SH	O-acetyl
amino acid	acyl	NH_2	SH	SH
amino acid	acyl	NH_2	SH	SMe
amino acid	acyl	NH_2	SH	SEt
amino acid	acyl	NH_2	SH	S-cyclopropyl
amino acid	acyl	NH_2	SH	F
amino acid	acyl	NH_2	SH	Cl
amino acid	acyl	NH_2	SH	Br
amino acid	acyl	NH_2	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I

R^2	R^3	X^1	X^2	Y
H	amino acid	F	SH	H
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt

R^2	R^3	X^1	X^2	Y
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	F	Br	H
acyl	H	F	Br	NH_2
acyl	H	F	Br	NH-cyclopropyl
acyl	H	F	Br	NH-methyl
acyl	H	F	Br	NH-ethyl
acyl	H	F	Br	NH-acetyl
acyl	H	F	Br	OH
acyl	H	F	Br	OMe
acyl	H	F	Br	OEt
acyl	H	F	Br	O-cyclopropyl
acyl	H	F	Br	O-acetyl
acyl	H	F	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br

R^2	R^3	X^1	X^2	Y
acyl	H	F	Br	I
acyl	acyl	F	Br	H
acyl	acyl	F	Br	NH_2
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	F	Br	Br
acyl	acyl	F	Br	I
acyl	amino acid	F	Br	H
acyl	amino acid	F	Br	NH_2
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	NH-ethyl
acyl	amino acid	F	Br	NH-acetyl
acyl	amino acid	F	Br	OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt
acyl	amino acid	F	Br	O-cyclopropyl
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	H
H	acyl	F	Br	NH_2
H	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe

R^2	R^3	X^1	X^2	Y
H	acyl	F	Br	OEt
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
H	acyl	F	Br	F
H	acyl	F	Br	Cl
H	acyl	F	Br	Br
H	acyl	F	Br	I
H	amino acid	F	Br	H
H	amino acid	F	Br	NH_2
H	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
H	amino acid	F	Br	OEt
H	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH
H	amino acid	F	Br	SMe
H	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F
H	amino acid	F	Br	Cl
H	amino acid	F	Br	Br
H	amino acid	F	Br	I
amino acid	amino acid	F	Br	H
amino acid	amino acid	F	Br	NH_2
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	OH
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F
amino acid	amino acid	F	Br	Cl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	Br	Br
amino acid	amino acid	F	Br	I
amino acid	H	F	Br	H
amino acid	H	F	Br	NH_2
amino acid	H	F	Br	NH-cyclopropyl
amino acid	H	F	Br	NH-methyl
amino acid	H	F	Br	NH-ethyl
amino acid	H	F	Br	NH-acetyl
amino acid	H	F	Br	OH
amino acid	H	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	H	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	H	F	Br	SEt
amino acid	H	F	Br	S-cyclopropyl
amino acid	H	F	Br	F
amino acid	H	F	Br	Cl
amino acid	H	F	Br	Br
amino acid	H	F	Br	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH_2
amino acid	acyl	F	Br	NH-cyclopropyl
amino acid	acyl	F	Br	NH-methyl
amino acid	acyl	F	Br	NH-ethyl
amino acid	acyl	F	Br	NH-acetyl
amino acid	acyl	F	Br	OH
amino acid	acyl	F	Br	OMe
amino acid	acyl	F	Br	OEt
amino acid	acyl	F	Br	O-cyclopropyl
amino acid	acyl	F	Br	O-acetyl
amino acid	acyl	F	Br	SH
amino acid	acyl	F	Br	SMe
amino acid	acyl	F	Br	SEt
amino acid	acyl	F	Br	S-cyclopropyl
amino acid	acyl	F	Br	F
amino acid	acyl	F	Br	Cl
amino acid	acyl	F	Br	Br
amino acid	acyl	F	Br	I
acyl	H	Br	F	H
acyl	H	Br	F	NH_2
acyl	H	Br	F	NH-cyclopropyl
acyl	H	Br	F	NH-methyl
acyl	H	Br	F	NH-ethyl
acyl	H	Br	F	NH-acetyl
acyl	H	Br	F	OH

R^2	R^3	X^1	X^2	Y
acyl	H	Br	F	OMe
acyl	H	Br	F	OEt
acyl	H	Br	F	O-cyclopropyl
acyl	H	Br	F	O-acetyl
acyl	H	Br	F	SH
acyl	H	Br	F	SMe
acyl	H	Br	F	SEt
acyl	H	Br	F	S-cyclopropyl
acyl	H	Br	F	F
acyl	H	Br	F	Cl
acyl	H	Br	F	Br
acyl	H	Br	F	I
acyl	acyl	Br	F	H
acyl	acyl	Br	F	NH_2
acyl	acyl	Br	F	NH-cyclopropyl
acyl	acyl	Br	F	NH-methyl
acyl	acyl	Br	F	NH-ethyl
acyl	acyl	Br	F	NH-acetyl
acyl	acyl	Br	F	OH
acyl	acyl	Br	F	OMe
acyl	acyl	Br	F	OEt
acyl	acyl	Br	F	O-cyclopropyl
acyl	acyl	Br	F	O-acetyl
acyl	acyl	Br	F	SH
acyl	acyl	Br	F	SMe
acyl	acyl	Br	F	SEt
acyl	acyl	Br	F	S-cyclopropyl
acyl	acyl	Br	F	F
acyl	acyl	Br	F	Cl
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	H
acyl	amino acid	Br	F	NH_2
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	F	Cl
acyl	amino acid	Br	F	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
H	acyl	Br	F	NH_2
H	acyl	Br	F	NH-cyclopropyl
H	acyl	Br	F	NH-methyl
H	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
H	acyl	Br	F	OH
H	acyl	Br	F	OMe
H	acyl	Br	F	OEt
H	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
H	acyl	Br	F	SMe
H	acyl	Br	F	SEt
H	acyl	Br	F	S-cyclopropyl
H	acyl	Br	F	F
H	acyl	Br	F	Cl
H	acyl	Br	F	Br
H	acyl	Br	F	I
H	amino acid	Br	F	H
H	amino acid	Br	F	NH_2
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid	Br	F	NH-ethyl
H	amino acid	Br	F	NH-acetyl
H	amino acid	Br	F	OH
H	amino acid	Br	F	OMe
H	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
H	amino acid	Br	F	O-acetyl
H	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
H	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
H	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH_2
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	F	OH
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH_2
amino acid	H	Br	F	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	O-cyclopropyl
amino acid	H	Br	F	O-acetyl
amino acid	H	Br	F	SH
amino acid	H	Br	F	SMe
amino acid	H	Br	F	SEt
amino acid	H	Br	F	S-cyclopropyl
amino acid	H	Br	F	F
amino acid	H	Br	F	Cl
amino acid	H	Br	F	Br
amino acid	H	Br	F	I
amino acid	acyl	Br	F	H
amino acid	acyl	Br	F	NH_2
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	OH
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	F	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	F	F
amino acid	acyl	Br	F	Cl
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	F	Cl	H
acyl	H	F	Cl	NH_2
acyl	H	F	Cl	NH-cyclopropyl
acyl	H	F	Cl	NH-methyl
acyl	H	F	Cl	NH-ethyl
acyl	H	F	Cl	NH-acetyl
acyl	H	F	Cl	OH
acyl	H	F	Cl	OMe
acyl	H	F	Cl	OEt
acyl	H	F	Cl	O-cyclopropyl
acyl	H	F	Cl	O-acetyl
acyl	H	F	Cl	SH
acyl	H	F	Cl	SMe
acyl	H	F	Cl	SEt
acyl	H	F	Cl	S-cyclopropyl
acyl	H	F	Cl	F
acyl	H	F	Cl	Cl
acyl	H	F	Cl	Br
acyl	H	F	Cl	I
acyl	acyl	F	Cl	H
acyl	acyl	F	Cl	NH_2
acyl	acyl	F	Cl	NH-cyclopropyl
acyl	acyl	F	Cl	NH-methyl
acyl	acyl	F	Cl	NH-ethyl
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	Cl	OH
acyl	acyl	F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	I
acyl	amino acid	F	Cl	H
acyl	amino acid	F	Cl	NH_2
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F	Cl	NH-methyl
acyl	amino acid	F	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	Cl	NH-acetyl
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	Cl	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
acyl	amino acid	F	Cl	S-cyclopropyl
acyl	amino acid	F	Cl	F
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
H	acyl	F	Cl	H
H	acyl	F	Cl	NH_2
H	acyl	F	Cl	NH-cyclopropyl
H	acyl	F	Cl	NH-methyl
H	acyl	F	Cl	NH-ethyl
H	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	OH
H	acyl	F	Cl	OMe
H	acyl	F	Cl	OEt
H	acyl	F	Cl	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
H	acyl	F	Cl	SMe
H	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
H	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	H
H	amino acid	F	Cl	NH_2
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt

R^2	R^3	X^1	X^2	Y
H	amino acid	F	Cl	S-cyclopropyl
H	amino acid	F	Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH_2
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	Cl	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	Cl	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	Cl	SH
amino acid	amino acid	F	Cl	SMe
amino acid	amino acid	F	Cl	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	Cl	I
amino acid	H	F	Cl	H
amino acid	H	F	Cl	NH_2
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	H	F	Cl	NH-ethyl
amino acid	H	F	Cl	NH-acetyl
amino acid	H	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	F	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	H	F	Cl	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	Cl	SEt
amino acid	H	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	H	F	Cl	Cl
amino acid	H	F	Cl	Br
amino acid	H	F	Cl	I
amino acid	acyl	F	Cl	H
amino acid	acyl	F	Cl	NH_2
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	F	Cl	NH-ethyl
amino acid	acyl	F	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	F	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	Cl	O-cyclopropyl
amino acid	acyl	F	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
amino acid	acyl	F	Cl	S-cyclopropyl
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br
amino acid	acyl	F	Cl	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH_2
acyl	H	Cl	F	NH-cyclopropyl
acyl	H	Cl	F	NH-methyl
acyl	H	Cl	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	H	Cl	F	OH
acyl	H	Cl	F	OMe
acyl	H	Cl	F	OEt
acyl	H	Cl	F	O-cyclopropyl
acyl	H	Cl	F	O-acetyl
acyl	H	Cl	F	SH
acyl	H	Cl	F	SMe
acyl	H	Cl	F	SEt
acyl	H	Cl	F	S-cyclopropyl
acyl	H	Cl	F	F
acyl	H	Cl	F	Cl
acyl	H	Cl	F	Br
acyl	H	Cl	F	I
acyl	acyl	Cl	F	H
acyl	acyl	Cl	F	NH_2
acyl	acyl	Cl	F	NH-cyclopropyl
acyl	acyl	Cl	F	NH-methyl
acyl	acyl	Cl	F	NH-ethyl
acyl	acyl	Cl	F	NH-acetyl
acyl	acyl	Cl	F	OH
acyl	acyl	Cl	F	OMe
acyl	acyl	Cl	F	OEt
acyl	acyl	Cl	F	O-cyclopropyl
acyl	acyl	Cl	F	O-acetyl
acyl	acyl	Cl	F	SH
acyl	acyl	Cl	F	SMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	F	SEt
acyl	acyl	Cl	F	S-cyclopropyl
acyl	acyl	Cl	F	F
acyl	acyl	Cl	F	Cl
acyl	acyl	Cl	F	Br
acyl	acyl	Cl	F	I
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH_2
acyl	amino acid	Cl	F	NH-cyclopropyl
acyl	amino acid	Cl	F	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	F	OMe
acyl	amino acid	Cl	F	OEt
acyl	amino acid	Cl	F	O-cyclopropyl
acyl	amino acid	Cl	F	O-acetyl
acyl	amino acid	Cl	F	SH
acyl	amino acid	Cl	F	SMe
acyl	amino acid	Cl	F	SEt
acyl	amino acid	Cl	F	S-cyclopropyl
acyl	amino acid	Cl	F	F
acyl	amino acid	Cl	F	Cl
acyl	amino acid	Cl	F	Br
acyl	amino acid	Cl	F	I
H	acyl	Cl	F	H
H	acyl	Cl	F	NH_2
H	acyl	Cl	F	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
H	acyl	Cl	F	NH-ethyl
H	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
H	acyl	Cl	F	OMe
H	acyl	Cl	F	OEt
H	acyl	Cl	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
H	acyl	Cl	F	SEt
H	acyl	Cl	F	S-cyclopropyl
H	acyl	Cl	F	F
H	acyl	Cl	F	Cl
H	acyl	Cl	F	Br
H	acyl	Cl	F	I
H	amino acid	Cl	F	H
H	amino acid	Cl	F	NH_2
H	amino acid	Cl	F	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	F	NH-methyl
H	amino acid	Cl	F	NH-ethyl
H	amino acid	Cl	F	NH-acetyl
H	amino acid	Cl	F	OH
H	amino acid	Cl	F	OMe
H	amino acid	Cl	F	OEt
H	amino acid	Cl	F	O-cyclopropyl
H	amino acid	Cl	F	O-acetyl
H	amino acid	Cl	F	SH
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
H	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	Cl	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH_2
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H
amino acid	H	Cl	F	NH_2
amino acid	H	Cl	F	NH-cyclopropyl
amino acid	H	Cl	F	NH-methyl
amino acid	H	Cl	F	NH-ethyl
amino acid	H	Cl	F	NH-acetyl
amino acid	H	Cl	F	OH
amino acid	H	Cl	F	OMe
amino acid	H	Cl	F	OEt
amino acid	H	Cl	F	O-cyclopropyl
amino acid	H	Cl	F	O-acetyl
amino acid	H	Cl	F	SH

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	F	SMe
amino acid	H	Cl	F	SEt
amino acid	H	Cl	F	S-cyclopropyl
amino acid	H	Cl	F	F
amino acid	H	Cl	F	Cl
amino acid	H	Cl	F	Br
amino acid	H	Cl	F	I
amino acid	acyl	Cl	F	H
amino acid	acyl	Cl	F	NH_2
amino acid	acyl	Cl	F	NH-cyclopropyl
amino acid	acyl	Cl	F	NH-methyl
amino acid	acyl	Cl	F	NH-ethyl
amino acid	acyl	Cl	F	NH-acetyl
amino acid	acyl	Cl	F	OH
amino acid	acyl	Cl	F	OMe
amino acid	acyl	Cl	F	OEt
amino acid	acyl	Cl	F	O-cyclopropyl
amino acid	acyl	Cl	F	O-acetyl
amino acid	acyl	Cl	F	SH
amino acid	acyl	Cl	F	SMe
amino acid	acyl	Cl	F	SEt
amino acid	acyl	Cl	F	S-cyclopropyl
amino acid	acyl	Cl	F	F
amino acid	acyl	Cl	F	Cl
amino acid	acyl	Cl	F	Br
amino acid	acyl	Cl	F	I
acyl	H	SH	H	H
acyl	H	SH	H	NH_2
acyl	H	SH	H	NH-cyclopropyl
acyl	H	SH	H	NH-methyl
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
acyl	H	SH	H	S-cyclopropyl
acyl	H	SH	H	F
acyl	H	SH	H	Cl
acyl	H	SH	H	Br
acyl	H	SH	H	I
acyl	acyl	SH	H	H
acyl	acyl	SH	H	NH_2

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	H	NH-cyclopropyl
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	H	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	H	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	H	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	H	F
acyl	acyl	SH	H	Cl
acyl	acyl	SH	H	Br
acyl	acyl	SH	H	I
acyl	amino acid	SH	H	H
acyl	amino acid	SH	H	NH_2
acyl	amino acid	SH	H	NH-cyclopropyl
acyl	amino acid	SH	H	NH-methyl
acyl	amino acid	SH	H	NH-ethyl
acyl	amino acid	SH	H	NH-acetyl
acyl	amino acid	SH	H	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	H	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	H	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	H	H
H	acyl	SH	H	NH_2
H	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	H	NH-methyl
H	acyl	SH	H	NH-ethyl
H	acyl	SH	H	NH-acetyl
H	acyl	SH	H	OH
H	acyl	SH	H	OMe
H	acyl	SH	H	OEt
H	acyl	SH	H	O-cyclopropyl
H	acyl	SH	H	O-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	SH	H	SH
H	acyl	SH	H	SMe
H	acyl	SH	H	SEt
H	acyl	SH	H	S-cyclopropyl
H	acyl	SH	H	F
H	acyl	SH	H	Cl
H	acyl	SH	H	Br
H	acyl	SH	H	I
H	amino acid	SH	H	H
H	amino acid	SH	H	NH_2
H	amino acid	SH	H	NH-cyclopropyl
H	amino acid	SH	H	NH-methyl
H	amino acid	SH	H	NH-ethyl
H	amino acid	SH	H	NH-acetyl
H	amino acid	SH	H	OH
H	amino acid	SH	H	OMe
H	amino acid	SH	H	OEt
H	amino acid	SH	H	O-cyclopropyl
H	amino acid	SH	H	O-acetyl
H	amino acid	SH	H	SH
H	amino acid	SH	H	SMe
H	amino acid	SH	H	SEt
H	amino acid	SH	H	S-cyclopropyl
H	amino acid	SH	H	F
H	amino acid	SH	H	Cl
H	amino acid	SH	H	Br
H	amino acid	SH	H	I
amino acid	amino acid	SH	H	H
amino acid	amino acid	SH	H	NH_2
amino acid	amino acid	SH	H	NH-cyclopropyl
amino acid	amino acid	SH	H	NH-methyl
amino acid	amino acid	SH	H	NH-ethyl
amino acid	amino acid	SH	H	NH-acetyl
amino acid	amino acid	SH	H	OH
amino acid	amino acid	SH	H	OMe
amino acid	amino acid	SH	H	OEt
amino acid	amino acid	SH	H	O-cyclopropyl
amino acid	amino acid	SH	H	O-acetyl
amino acid	amino acid	SH	H	SH
amino acid	amino acid	SH	H	SMe
amino acid	amino acid	SH	H	SEt
amino acid	amino acid	SH	H	S-cyclopropyl
amino acid	amino acid	SH	H	F
amino acid	amino acid	SH	H	Cl
amino acid	amino acid	SH	H	Br
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	H

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	H	NH_2
amino acid	H	SH	H	NH-cyclopropyl
amino acid	H	SH	H	NH-methyl
amino acid	H	SH	H	NH-ethyl
amino acid	H	SH	H	NH-acetyl
amino acid	H	SH	H	OH
amino acid	H	SH	H	OMe
amino acid	H	SH	H	OEt
amino acid	H	SH	H	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	H	SH	H	SMe
amino acid	H	SH	H	SEt
amino acid	H	SH	H	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	H	SH	H	Cl
amino acid	H	SH	H	Br
amino acid	H	SH	H	I
amino acid	acyl	SH	H	H
amino acid	acyl	SH	H	NH_2
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	H	NH-methyl
amino acid	acyl	SH	H	NH-ethyl
amino acid	acyl	SH	H	NH-acetyl
amino acid	acyl	SH	H	OH
amino acid	acyl	SH	H	OMe
amino acid	acyl	SH	H	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	H	F
amino acid	acyl	SH	H	Cl
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	H	I
acyl	H	SH	F	H
acyl	H	SH	F	NH_2
acyl	H	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	H	SH	F	NH-ethyl
acyl	H	SH	F	NH-acetyl
acyl	H	SH	F	OH
acyl	H	SH	F	OMe
acyl	H	SH	F	OEt
acyl	H	SH	F	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	SH	F	O-acetyl
acyl	H	SH	F	SH
acyl	H	SH	F	SMe
acyl	H	SH	F	SEt
acyl	H	SH	F	S-cyclopropyl
acyl	H	SH	F	F
acyl	H	SH	F	Cl
acyl	H	SH	F	Br
acyl	H	SH	F	I
acyl	acyl	SH	F	H
acyl	acyl	SH	F	NH_2
acyl	acyl	SH	F	NH-cyclopropyl
acyl	acyl	SH	F	NH-methyl
acyl	acyl	SH	F	NH-ethyl
acyl	acyl	SH	F	NH-acetyl
acyl	acyl	SH	F	OH
acyl	acyl	SH	F	OMe
acyl	acyl	SH	F	OEt
acyl	acyl	SH	F	O-cyclopropyl
acyl	acyl	SH	F	O-acetyl
acyl	acyl	SH	F	SH
acyl	acyl	SH	F	SMe
acyl	acyl	SH	F	SEt
acyl	acyl	SH	F	S-cyclopropyl
acyl	acyl	SH	F	F
acyl	acyl	SH	F	Cl
acyl	acyl	SH	F	Br
acyl	acyl	SH	F	I
acyl	amino acid	SH	F	H
acyl	amino acid	SH	F	NH_2
acyl	amino acid	SH	F	NH-cyclopropyl
acyl	amino acid	SH	F	NH-methyl
acyl	amino acid	SH	F	NH-ethyl
acyl	amino acid	SH	F	NH-acetyl
acyl	amino acid	SH	F	OH
acyl	amino acid	SH	F	OMe
acyl	amino acid	SH	F	OEt
acyl	amino acid	SH	F	O-cyclopropyl
acyl	amino acid	SH	F	O-acetyl
acyl	amino acid	SH	F	SH
acyl	amino acid	SH	F	SMe
acyl	amino acid	SH	F	SEt
acyl	amino acid	SH	F	S-cyclopropyl
acyl	amino acid	SH	F	F
acyl	amino acid	SH	F	Cl
acyl	amino acid	SH	F	Br
acyl	amino acid	SH	F	I

R^2	R^3	X^1	X^2	Y
H	acyl	SH	F	H
H	acyl	SH	F	NH_2
H	acyl	SH	F	NH-cyclopropyl
H	acyl	SH	F	NH-methyl
H	acyl	SH	F	NH-ethyl
H	acyl	SH	F	NH-acetyl
H	acyl	SH	F	OH
H	acyl	SH	F	OMe
H	acyl	SH	F	OEt
H	acyl	SH	F	O-cyclopropyl
H	acyl	SH	F	O-acetyl
H	acyl	SH	F	SH
H	acyl	SH	F	SMe
H	acyl	SH	F	SEt
H	acyl	SH	F	S-cyclopropyl
H	acyl	SH	F	F
H	acyl	SH	F	Cl
H	acyl	SH	F	Br
H	acyl	SH	F	I
H	amino acid	SH	F	H
H	amino acid	SH	F	NH_2
H	amino acid	SH	F	NH-cyclopropyl
H	amino acid	SH	F	NH-methyl
H	amino acid	SH	F	NH-ethyl
H	amino acid	SH	F	NH-acetyl
H	amino acid	SH	F	OH
H	amino acid	SH	F	OMe
H	amino acid	SH	F	OEt
H	amino acid	SH	F	O-cyclopropyl
H	amino acid	SH	F	O-acetyl
H	amino acid	SH	F	SH
H	amino acid	SH	F	SMe
H	amino acid	SH	F	SEt
H	amino acid	SH	F	S-cyclopropyl
H	amino acid	SH	F	F
H	amino acid	SH	F	Cl
H	amino acid	SH	F	Br
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH_2
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	F	O-cyclopropyl
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	H	SH	F	NH_2
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	H	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	OH
amino acid	H	SH	F	OMe
amino acid	H	SH	F	OEt
amino acid	H	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	H	SH	F	SH
amino acid	H	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	H	SH	F	S-cyclopropyl
amino acid	H	SH	F	F
amino acid	H	SH	F	Cl
amino acid	H	SH	F	Br
amino acid	H	SH	F	I
amino acid	acyl	SH	F	H
amino acid	acyl	SH	F	NH_2
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	F	I
acyl	H	SH	Cl	H
acyl	H	SH	Cl	NH_2
acyl	H	SH	Cl	NH-cyclopropyl
acyl	H	SH	Cl	NH-methyl
acyl	H	SH	Cl	NH-ethyl
acyl	H	SH	Cl	NH-acetyl
acyl	H	SH	Cl	OH
acyl	H	SH	Cl	OMe
acyl	H	SH	Cl	OEt
acyl	H	SH	Cl	O-cyclopropyl
acyl	H	SH	Cl	O-acetyl
acyl	H	SH	Cl	SH
acyl	H	SH	Cl	SMe
acyl	H	SH	Cl	SEt
acyl	H	SH	Cl	S-cyclopropyl
acyl	H	SH	Cl	F
acyl	H	SH	Cl	Cl
acyl	H	SH	Cl	Br
acyl	H	SH	Cl	I
acyl	acyl	SH	Cl	H
acyl	acyl	SH	Cl	NH_2
acyl	acyl	SH	Cl	NH-cyclopropyl
acyl	acyl	SH	Cl	NH-methyl
acyl	acyl	SH	Cl	NH-ethyl
acyl	acyl	SH	Cl	NH-acetyl
acyl	acyl	SH	Cl	OH
acyl	acyl	SH	Cl	OMe
acyl	acyl	SH	Cl	OEt
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl	acyl	SH	Cl	SH
acyl	acyl	SH	Cl	SMe
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	H
acyl	amino acid	SH	Cl	NH_2
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	OH
acyl	amino acid	SH	Cl	OMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	Cl	OEt
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	Cl
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
H	acyl	SH	Cl	H
H	acyl	SH	Cl	NH_2
H	acyl	SH	Cl	NH-cyclopropyl
H	acyl	SH	Cl	NH-methyl
H	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
H	acyl	SH	Cl	OH
H	acyl	SH	Cl	OMe
H	acyl	SH	Cl	OEt
H	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
H	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
H	acyl	SH	Cl	SEt
H	acyl	SH	Cl	S-cyclopropyl
H	acyl	SH	Cl	F
H	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
H	acyl	SH	Cl	I
H	amino acid	SH	Cl	H
H	amino acid	SH	Cl	NH_2
H	amino acid	SH	Cl	NH-cyclopropyl
H	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	Cl	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
H	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Cl	Br
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH_2
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cl	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	Cl	Cl
amino acid	amino acid	SH	Cl	Br
amino acid	amino acid	SH	Cl	I
amino acid	H	SH	Cl	H
amino acid	H	SH	Cl	NH_2
amino acid	H	SH	Cl	NH-cyclopropyl
amino acid	H	SH	Cl	NH-methyl
amino acid	H	SH	Cl	NH-ethyl
amino acid	H	SH	Cl	NH-acetyl
amino acid	H	SH	Cl	OH
amino acid	H	SH	Cl	OMe
amino acid	H	SH	Cl	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl
amino acid	H	SH	Cl	SH
amino acid	H	SH	Cl	SMe
amino acid	H	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	H	SH	Cl	F
amino acid	H	SH	Cl	Cl
amino acid	H	SH	Cl	Br
amino acid	H	SH	Cl	I
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH_2
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	Cl	OH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	Cl	OMe
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Cl	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	I
acyl	H	SH	Br	H
acyl	H	SH	Br	NH_2
acyl	H	SH	Br	NH-cyclopropyl
acyl	H	SH	Br	NH-methyl
acyl	H	SH	Br	NH-ethyl
acyl	H	SH	Br	NH-acetyl
acyl	H	SH	Br	OH
acyl	H	SH	Br	OMe
acyl	H	SH	Br	OEt
acyl	H	SH	Br	O-cyclopropyl
acyl	H	SH	Br	O-acetyl
acyl	H	SH	Br	SH
acyl	H	SH	Br	SMe
acyl	H	SH	Br	SEt
acyl	H	SH	Br	S-cyclopropyl
acyl	H	SH	Br	F
acyl	H	SH	Br	Cl
acyl	H	SH	Br	Br
acyl	H	SH	Br	I
acyl	acyl	SH	Br	H
acyl	acyl	SH	Br	NH_2
acyl	acyl	SH	Br	NH-cyclopropyl
acyl	acyl	SH	Br	NH-methyl
acyl	acyl	SH	Br	NH-ethyl
acyl	acyl	SH	Br	NH-acetyl
acyl	acyl	SH	Br	OH
acyl	acyl	SH	Br	OMe
acyl	acyl	SH	Br	OEt
acyl	acyl	SH	Br	O-cyclopropyl
acyl	acyl	SH	Br	O-acetyl
acyl	acyl	SH	Br	SH
acyl	acyl	SH	Br	SMe
acyl	acyl	SH	Br	SEt
acyl	acyl	SH	Br	S-cyclopropyl
acyl	acyl	SH	Br	F

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	Br	Cl
acyl	acyl	SH	Br	Br
acyl	acyl	SH	Br	I
acyl	amino acid	SH	Br	H
acyl	amino acid	SH	Br	NH_2
acyl	amino acid	SH	Br	NH-cyclopropyl
acyl	amino acid	SH	Br	NH-methyl
acyl	amino acid	SH	Br	NH-ethyl
acyl	amino acid	SH	Br	NH-acetyl
acyl	amino acid	SH	Br	OH
acyl	amino acid	SH	Br	OMe
acyl	amino acid	SH	Br	OEt
acyl	amino acid	SH	Br	O-cyclopropyl
acyl	amino acid	SH	Br	O-acetyl
acyl	amino acid	SH	Br	SH
acyl	amino acid	SH	Br	SMe
acyl	amino acid	SH	Br	SEt
acyl	amino acid	SH	Br	S-cyclopropyl
acyl	amino acid	SH	Br	F
acyl	amino acid	SH	Br	Cl
acyl	amino acid	SH	Br	Br
acyl	amino acid	SH	Br	I
H	acyl	SH	Br	H
H	acyl	SH	Br	NH_2
H	acyl	SH	Br	NH-cyclopropyl
H	acyl	SH	Br	NH-methyl
H	acyl	SH	Br	NH-ethyl
H	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	OH
H	acyl	SH	Br	OMe
H	acyl	SH	Br	OEt
H	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
H	acyl	SH	Br	SMe
H	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl
H	acyl	SH	Br	F
H	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	I
H	amino acid	SH	Br	H
H	amino acid	SH	Br	NH_2
H	amino acid	SH	Br	NH-cyclopropyl
H	amino acid	SH	Br	NH-methyl
H	amino acid	SH	Br	NH-ethyl
H	amino acid	SH	Br	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Br	OH
H	amino acid	SH	Br	OMe
H	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
H	amino acid	SH	Br	O-acetyl
H	amino acid	SH	Br	SH
H	amino acid	SH	Br	SMe
H	amino acid	SH	Br	SEt
H	amino acid	SH	Br	S-cyclopropyl
H	amino acid	SH	Br	F
H	amino acid	SH	Br	Cl
H	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	H
amino acid	amino acid	SH	Br	NH_2
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	O-acetyl
amino acid	amino acid	SH	Br	SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid	SH	Br	F
amino acid	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	H	SH	Br	H
amino acid	H	SH	Br	NH_2
amino acid	H	SH	Br	NH-cyclopropyl
amino acid	H	SH	Br	NH-methyl
amino acid	H	SH	Br	NH-ethyl
amino acid	H	SH	Br	NH-acetyl
amino acid	H	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	H	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	H	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	H	SH	Br	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	Br	F
amino acid	H	SH	Br	Cl
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	acyl	SH	Br	H
amino acid	acyl	SH	Br	NH_2
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH
amino acid	acyl	SH	Br	OMe
amino acid	acyl	SH	Br	OEt
amino acid	acyl	SH	Br	O-cyclopropyl
amino acid	acyl	SH	Br	O-acetyl
amino acid	acyl	SH	Br	SH
amino acid	acyl	SH	Br	SMe
amino acid	acyl	SH	Br	SEt
amino acid	acyl	SH	Br	S-cyclopropyl
amino acid	acyl	SH	Br	F
amino acid	acyl	SH	Br	Cl
amino acid	acyl	SH	Br	Br
amino acid	acyl	SH	Br	I
acyl	H	H	SH	H
acyl	H	H	SH	NH_2
acyl	H	H	SH	NH-cyclopropyl
acyl	H	H	SH	NH-methyl
acyl	H	H	SH	NH-ethyl
acyl	H	H	SH	NH-acetyl
acyl	H	H	SH	OH
acyl	H	H	SH	OMe
acyl	H	H	SH	OEt
acyl	H	H	SH	O-cyclopropyl
acyl	H	H	SH	O-acetyl
acyl	H	H	SH	SH
acyl	H	H	SH	SMe
acyl	H	H	SH	SEt
acyl	H	H	SH	S-cyclopropyl
acyl	H	H	SH	F
acyl	H	H	SH	Cl
acyl	H	H	SH	Br
acyl	H	H	SH	I
acyl	acyl	H	SH	H
acyl	acyl	H	SH	NH_2
acyl	acyl	H	SH	NH-cyclopropyl
acyl	acyl	H	SH	NH-methyl
acyl	acyl	H	SH	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	SH	NH-acetyl
acyl	acyl	H	SH	OH
acyl	acyl	H	SH	OMe
acyl	acyl	H	SH	OEt
acyl	acyl	H	SH	O-cyclopropyl
acyl	acyl	H	SH	O-acetyl
acyl	acyl	H	SH	SH
acyl	acyl	H	SH	SMe
acyl	acyl	H	SH	SEt
acyl	acyl	H	SH	S-cyclopropyl
acyl	acyl	H	SH	F
acyl	acyl	H	SH	Cl
acyl	acyl	H	SH	Br
acyl	acyl	H	SH	I
acyl	amino acid	H	SH	H
acyl	amino acid	H	SH	NH_2
acyl	amino acid	H	SH	NH-cyclopropyl
acyl	amino acid	H	SH	NH-methyl
acyl	amino acid	H	SH	NH-ethyl
acyl	amino acid	H	SH	NH-acetyl
acyl	amino acid	H	SH	OH
acyl	amino acid	H	SH	OMe
acyl	amino acid	H	SH	OEt
acyl	amino acid	H	SH	O-cyclopropyl
acyl	amino acid	H	SH	O-acetyl
acyl	amino acid	H	SH	SH
acyl	amino acid	H	SH	SMe
acyl	amino acid	H	SH	SEt
acyl	amino acid	H	SH	S-cyclopropyl
acyl	amino acid	H	SH	F
acyl	amino acid	H	SH	Cl
acyl	amino acid	H	SH	Br
acyl	amino acid	H	SH	I
H	acyl	H	SH	H
H	acyl	H	SH	NH_2
H	acyl	H	SH	NH-cyclopropyl
H	acyl	H	SH	NH-methyl
H	acyl	H	SH	NH-ethyl
H	acyl	H	SH	NH-acetyl
H	acyl	H	SH	OH
H	acyl	H	SH	OMe
H	acyl	H	SH	OEt
H	acyl	H	SH	O-cyclopropyl
H	acyl	H	SH	O-acetyl
H	acyl	H	SH	SH
H	acyl	H	SH	SMe
H	acyl	H	SH	SEt

R^2	R^3	X^1	X^2	Y
H	acyl	H	SH	S-cyclopropyl
H	acyl	H	SH	F
H	acyl	H	SH	Cl
H	acyl	H	SH	Br
H	acyl	H	SH	I
H	amino acid	H	SH	H
H	amino acid	H	SH	NH_2
H	amino acid	H	SH	NH-cyclopropyl
H	amino acid	H	SH	NH-methyl
H	amino acid	H	SH	NH-ethyl
H	amino acid	H	SH	NH-acetyl
H	amino acid	H	SH	OH
H	amino acid	H	SH	OMe
H	amino acid	H	SH	OEt
H	amino acid	H	SH	O-cyclopropyl
H	amino acid	H	SH	O-acetyl
H	amino acid	H	SH	SH
H	amino acid	H	SH	SMe
H	amino acid	H	SH	SEt
H	amino acid	H	SH	S-cyclopropyl
H	amino acid	H	SH	F
H	amino acid	H	SH	Cl
H	amino acid	H	SH	Br
H	amino acid	H	SH	I
amino acid	amino acid	H	SH	H
amino acid	amino acid	H	SH	NH_2
amino acid	amino acid	H	SH	NH-cyclopropyl
amino acid	amino acid	H	SH	NH-methyl
amino acid	amino acid	H	SH	NH-ethyl
amino acid	amino acid	H	SH	NH-acetyl
amino acid	amino acid	H	SH	OH
amino acid	amino acid	H	SH	OMe
amino acid	amino acid	H	SH	OEt
amino acid	amino acid	H	SH	O-cyclopropyl
amino acid	amino acid	H	SH	O-acetyl
amino acid	amino acid	H	SH	SH
amino acid	amino acid	H	SH	SMe
amino acid	amino acid	H	SH	SEt
amino acid	amino acid	H	SH	S-cyclopropyl
amino acid	amino acid	H	SH	F
amino acid	amino acid	H	SH	Cl
amino acid	amino acid	H	SH	Br
amino acid	amino acid	H	SH	I
amino acid	H	H	SH	H
amino acid	H	H	SH	NH_2
amino acid	H	H	SH	NH-cyclopropyl
amino acid	H	H	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	SH	NH-ethyl
amino acid	H	H	SH	NH-acetyl
amino acid	H	H	SH	OH
amino acid	H	H	SH	OMe
amino acid	H	H	SH	OEt
amino acid	H	H	SH	O-cyclopropyl
amino acid	H	H	SH	O-acetyl
amino acid	H	H	SH	SH
amino acid	H	H	SH	SMe
amino acid	H	H	SH	SEt
amino acid	H	H	SH	S-cyclopropyl
amino acid	H	H	SH	F
amino acid	H	H	SH	Cl
amino acid	H	H	SH	Br
amino acid	H	H	SH	I
amino acid	acyl	H	SH	H
amino acid	acyl	H	SH	NH_2
amino acid	acyl	H	SH	NH-cyclopropyl
amino acid	acyl	H	SH	NH-methyl
amino acid	acyl	H	SH	NH-ethyl
amino acid	acyl	H	SH	NH-acetyl
amino acid	acyl	H	SH	OH
amino acid	acyl	H	SH	OMe
amino acid	acyl	H	SH	OEt
amino acid	acyl	H	SH	O-cyclopropyl
amino acid	acyl	H	SH	O-acetyl
amino acid	acyl	H	SH	SH
amino acid	acyl	H	SH	SMe
amino acid	acyl	H	SH	SEt
amino acid	acyl	H	SH	S-cyclopropyl
amino acid	acyl	H	SH	F
amino acid	acyl	H	SH	Cl
amino acid	acyl	H	SH	Br
amino acid	acyl	H	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe

R^2	R^3	X^1	X^2	Y
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	Cl	SH	H
acyl	H	Cl	SH	NH_2

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	SH	NH-cyclopropyl
acyl	H	Cl	SH	NH-methyl
acyl	H	Cl	SH	NH-ethyl
acyl	H	Cl	SH	NH-acetyl
acyl	H	Cl	SH	OH
acyl	H	Cl	SH	OMe
acyl	H	Cl	SH	OEt
acyl	H	Cl	SH	O-cyclopropyl
acyl	H	Cl	SH	O-acetyl
acyl	H	Cl	SH	SH
acyl	H	Cl	SH	SMe
acyl	H	Cl	SH	SEt
acyl	H	Cl	SH	S-cyclopropyl
acyl	H	Cl	SH	F
acyl	H	Cl	SH	Cl
acyl	H	Cl	SH	Br
acyl	H	Cl	SH	I
acyl	acyl	Cl	SH	H
acyl	acyl	Cl	SH	NH_2
acyl	acyl	Cl	SH	NH-cyclopropyl
acyl	acyl	Cl	SH	NH-methyl
acyl	acyl	Cl	SH	NH-ethyl
acyl	acyl	Cl	SH	NH-acetyl
acyl	acyl	Cl	SH	OH
acyl	acyl	Cl	SH	OMe
acyl	acyl	Cl	SH	OEt
acyl	acyl	Cl	SH	O-cyclopropyl
acyl	acyl	Cl	SH	O-acetyl
acyl	acyl	Cl	SH	SH
acyl	acyl	Cl	SH	SMe
acyl	acyl	Cl	SH	SEt
acyl	acyl	Cl	SH	S-cyclopropyl
acyl	acyl	Cl	SH	F
acyl	acyl	Cl	SH	Cl
acyl	acyl	Cl	SH	Br
acyl	acyl	Cl	SH	I
acyl	amino acid	Cl	SH	H
acyl	amino acid	Cl	SH	NH_2
acyl	amino acid	Cl	SH	NH-cyclopropyl
acyl	amino acid	Cl	SH	NH-methyl
acyl	amino acid	Cl	SH	NH-ethyl
acyl	amino acid	Cl	SH	NH-acetyl
acyl	amino acid	Cl	SH	OH
acyl	amino acid	Cl	SH	OMe
acyl	amino acid	Cl	SH	OEt
acyl	amino acid	Cl	SH	O-cyclopropyl
acyl	amino acid	Cl	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Cl	SH	SH
acyl	amino acid	Cl	SH	SMe
acyl	amino acid	Cl	SH	SEt
acyl	amino acid	Cl	SH	S-cyclopropyl
acyl	amino acid	Cl	SH	F
acyl	amino acid	Cl	SH	Cl
acyl	amino acid	Cl	SH	Br
acyl	amino acid	Cl	SH	I
H	acyl	Cl	SH	H
H	acyl	Cl	SH	NH_2
H	acyl	Cl	SH	NH-cyclopropyl
H	acyl	Cl	SH	NH-methyl
H	acyl	Cl	SH	NH-ethyl
H	acyl	Cl	SH	NH-acetyl
H	acyl	Cl	SH	OH
H	acyl	Cl	SH	OMe
H	acyl	Cl	SH	OEt
H	acyl	Cl	SH	O-cyclopropyl
H	acyl	Cl	SH	O-acetyl
H	acyl	Cl	SH	SH
H	acyl	Cl	SH	SMe
H	acyl	Cl	SH	SEt
H	acyl	Cl	SH	S-cyclopropyl
H	acyl	Cl	SH	F
H	acyl	Cl	SH	Cl
H	acyl	Cl	SH	Br
H	acyl	Cl	SH	I
H	amino acid	Cl	SH	H
H	amino acid	Cl	SH	NH_2
H	amino acid	Cl	SH	NH-cyclopropyl
H	amino acid	Cl	SH	NH-methyl
H	amino acid	Cl	SH	NH-ethyl
H	amino acid	Cl	SH	NH-acetyl
H	amino acid	Cl	SH	OH
H	amino acid	Cl	SH	OMe
H	amino acid	Cl	SH	OEt
H	amino acid	Cl	SH	O-cyclopropyl
H	amino acid	Cl	SH	O-acetyl
H	amino acid	Cl	SH	SH
H	amino acid	Cl	SH	SMe
H	amino acid	Cl	SH	SEt
H	amino acid	Cl	SH	S-cyclopropyl
H	amino acid	Cl	SH	F
H	amino acid	Cl	SH	Cl
H	amino acid	Cl	SH	Br
H	amino acid	Cl	SH	I
amino acid	amino acid	Cl	SH	H

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	SH	NH_2
amino acid	amino acid	Cl	SH	NH-cyclopropyl
amino acid	amino acid	Cl	SH	NH-methyl
amino acid	amino acid	Cl	SH	NH-ethyl
amino acid	amino acid	Cl	SH	NH-acetyl
amino acid	amino acid	Cl	SH	OH
amino acid	amino acid	Cl	SH	OMe
amino acid	amino acid	Cl	SH	OEt
amino acid	amino acid	Cl	SH	O-cyclopropyl
amino acid	amino acid	Cl	SH	O-acetyl
amino acid	amino acid	Cl	SH	SH
amino acid	amino acid	Cl	SH	SMe
amino acid	amino acid	Cl	SH	SEt
amino acid	amino acid	Cl	SH	S-cyclopropyl
amino acid	amino acid	Cl	SH	F
amino acid	amino acid	Cl	SH	Cl
amino acid	amino acid	Cl	SH	Br
amino acid	amino acid	Cl	SH	I
amino acid	H	Cl	SH	H
amino acid	H	Cl	SH	NH_2
amino acid	H	Cl	SH	NH-cyclopropyl
amino acid	H	Cl	SH	NH-methyl
amino acid	H	Cl	SH	NH-ethyl
amino acid	H	Cl	SH	NH-acetyl
amino acid	H	Cl	SH	OH
amino acid	H	Cl	SH	OMe
amino acid	H	Cl	SH	OEt
amino acid	H	Cl	SH	O-cyclopropyl
amino acid	H	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	H	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
amino acid	H	Cl	SH	F
amino acid	H	Cl	SH	Cl
amino acid	H	Cl	SH	Br
amino acid	H	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH_2
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	Cl	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Cl	SH	O-acetyl
amino acid	acyl	Cl	SH	SH
amino acid	acyl	Cl	SH	SMe
amino acid	acyl	Cl	SH	SEt
amino acid	acyl	Cl	SH	S-cyclopropyl
amino acid	acyl	Cl	SH	F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH_2
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	H	Br	SH	OH
acyl	H	Br	SH	OMe
acyl	H	Br	SH	OEt
acyl	H	Br	SH	O-cyclopropyl
acyl	H	Br	SH	O-acetyl
acyl	H	Br	SH	SH
acyl	H	Br	SH	SMe
acyl	H	Br	SH	SEt
acyl	H	Br	SH	S-cyclopropyl
acyl	H	Br	SH	F
acyl	H	Br	SH	Cl
acyl	H	Br	SH	Br
acyl	H	Br	SH	I
acyl	acyl	Br	SH	H
acyl	acyl	Br	SH	NH_2
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	SH	H
acyl	amino acid	Br	SH	NH_2
acyl	amino acid	Br	SH	NH-cyclopropyl
acyl	amino acid	Br	SH	NH-methyl
acyl	amino acid	Br	SH	NH-ethyl
acyl	amino acid	Br	SH	NH-acetyl
acyl	amino acid	Br	SH	OH
acyl	amino acid	Br	SH	OMe
acyl	amino acid	Br	SH	OEt
acyl	amino acid	Br	SH	O-cyclopropyl
acyl	amino acid	Br	SH	O-acetyl
acyl	amino acid	Br	SH	SH
acyl	amino acid	Br	SH	SMe
acyl	amino acid	Br	SH	SEt
acyl	amino acid	Br	SH	S-cyclopropyl
acyl	amino acid	Br	SH	F
acyl	amino acid	Br	SH	Cl
acyl	amino acid	Br	SH	Br
acyl	amino acid	Br	SH	I
H	acyl	Br	SH	H
H	acyl	Br	SH	NH_2
H	acyl	Br	SH	NH-cyclopropyl
H	acyl	Br	SH	NH-methyl
H	acyl	Br	SH	NH-ethyl
H	acyl	Br	SH	NH-acetyl
H	acyl	Br	SH	OH
H	acyl	Br	SH	OMe
H	acyl	Br	SH	OEt
H	acyl	Br	SH	O-cyclopropyl
H	acyl	Br	SH	O-acetyl
H	acyl	Br	SH	SH
H	acyl	Br	SH	SMe
H	acyl	Br	SH	SEt
H	acyl	Br	SH	S-cyclopropyl
H	acyl	Br	SH	F
H	acyl	Br	SH	Cl
H	acyl	Br	SH	Br
H	acyl	Br	SH	I
H	amino acid	Br	SH	H
H	amino acid	Br	SH	NH_2
H	amino acid	Br	SH	NH-cyclopropyl
H	amino acid	Br	SH	NH-methyl
H	amino acid	Br	SH	NH-ethyl
H	amino acid	Br	SH	NH-acetyl
H	amino acid	Br	SH	OH
H	amino acid	Br	SH	OMe
H	amino acid	Br	SH	OEt

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	SH	O-cyclopropyl
H	amino acid	Br	SH	O-acetyl
H	amino acid	Br	SH	SH
H	amino acid	Br	SH	SMe
H	amino acid	Br	SH	SEt
H	amino acid	Br	SH	S-cyclopropyl
H	amino acid	Br	SH	F
H	amino acid	Br	SH	Cl
H	amino acid	Br	SH	Br
H	amino acid	Br	SH	I
amino acid	amino acid	Br	SH	H
amino acid	amino acid	Br	SH	NH_2
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	O-acetyl
amino acid	amino acid	Br	SH	SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	S-cyclopropyl
amino acid	amino acid	Br	SH	F
amino acid	amino acid	Br	SH	Cl
amino acid	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	H	Br	SH	NH_2
amino acid	H	Br	SH	NH-cyclopropyl
amino acid	H	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	H	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	H	Br	SH	OMe
amino acid	H	Br	SH	OEt
amino acid	H	Br	SH	O-cyclopropyl
amino acid	H	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	H	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	H	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	H	Br	SH	Br

R^2	R^3	X^1	X^2	Y
amino acid	H	Br	SH	I
amino acid	acyl	Br	SH	H
amino acid	acyl	Br	SH	NH_2
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid	acyl	Br	SH	O-cyclopropyl
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt
amino acid	acyl	Br	SH	S-cyclopropyl
amino acid	acyl	Br	SH	F
amino acid	acyl	Br	SH	Cl
amino acid	acyl	Br	SH	Br
amino acid	acyl	Br	SH	I
acyl	H	F	F	H
acyl	H	F	F	NH_2
acyl	H	F	F	NH-cyclopropyl
acyl	H	F	F	NH-methyl
acyl	H	F	F	NH-ethyl
acyl	H	F	F	NH-acetyl
acyl	H	F	F	OH
acyl	H	F	F	OMe
acyl	H	F	F	OEt
acyl	H	F	F	O-cyclopropyl
acyl	H	F	F	O-acetyl
acyl	H	F	F	SH
acyl	H	F	F	SMe
acyl	H	F	F	SEt
acyl	H	F	F	S-cyclopropyl
acyl	H	F	F	F
acyl	H	F	F	Cl
acyl	H	F	F	Br
acyl	H	F	F	I
acyl	acyl	F	F	H
acyl	acyl	F	F	NH_2
acyl	acyl	F	F	NH-cyclopropyl
acyl	acyl	F	F	NH-methyl
acyl	acyl	F	F	NH-ethyl
acyl	acyl	F	F	NH-acetyl
acyl	acyl	F	F	OH
acyl	acyl	F	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	F	OEt
acyl	acyl	F	F	O-cyclopropyl
acyl	acyl	F	F	O-acetyl
acyl	acyl	F	F	SH
acyl	acyl	F	F	SMe
acyl	acyl	F	F	SEt
acyl	acyl	F	F	S-cyclopropyl
acyl	acyl	F	F	F
acyl	acyl	F	F	Cl
acyl	acyl	F	F	Br
acyl	acyl	F	F	I
acyl	amino acid	F	F	H
acyl	amino acid	F	F	NH_2
acyl	amino acid	F	F	NH-cyclopropyl
acyl	amino acid	F	F	NH-methyl
acyl	amino acid	F	F	NH-ethyl
acyl	amino acid	F	F	NH-acetyl
acyl	amino acid	F	F	OH
acyl	amino acid	F	F	OMe
acyl	amino acid	F	F	OEt
acyl	amino acid	F	F	O-cyclopropyl
acyl	amino acid	F	F	O-acetyl
acyl	amino acid	F	F	SH
acyl	amino acid	F	F	SMe
acyl	amino acid	F	F	SEt
acyl	amino acid	F	F	S-cyclopropyl
acyl	amino acid	F	F	F
acyl	amino acid	F	F	Cl
acyl	amino acid	F	F	Br
acyl	amino acid	F	F	I
H	acyl	F	F	H
H	acyl	F	F	NH_2
H	acyl	F	F	NH-cyclopropyl
H	acyl	F	F	NH-methyl
H	acyl	F	F	NH-ethyl
H	acyl	F	F	NH-acetyl
H	acyl	F	F	OH
H	acyl	F	F	OMe
H	acyl	F	F	OEt
H	acyl	F	F	O-cyclopropyl
H	acyl	F	F	O-acetyl
H	acyl	F	F	SH
H	acyl	F	F	SMe
H	acyl	F	F	SEt
H	acyl	F	F	S-cyclopropyl
H	acyl	F	F	F
H	acyl	F	F	Cl

R^2	R^3	X^1	X^2	Y
H	acyl	F	F	Br
H	acyl	F	F	I
H	amino acid	F	F	H
H	amino acid	F	F	NH_2
H	amino acid	F	F	NH-cyclopropyl
H	amino acid	F	F	NH-methyl
H	amino acid	F	F	NH-ethyl
H	amino acid	F	F	NH-acetyl
H	amino acid	F	F	OH
H	amino acid	F	F	OMe
H	amino acid	F	F	OEt
H	amino acid	F	F	O-cyclopropyl
H	amino acid	F	F	O-acetyl
H	amino acid	F	F	SH
H	amino acid	F	F	SMe
H	amino acid	F	F	SEt
H	amino acid	F	F	S-cyclopropyl
H	amino acid	F	F	F
H	amino acid	F	F	Cl
H	amino acid	F	F	Br
H	amino acid	F	F	I
amino acid	amino acid	F	F	H
amino acid	amino acid	F	F	NH_2
amino acid	amino acid	F	F	NH-cyclopropyl
amino acid	amino acid	F	F	NH-methyl
amino acid	amino acid	F	F	NH-ethyl
amino acid	amino acid	F	F	NH-acetyl
amino acid	amino acid	F	F	OH
amino acid	amino acid	F	F	OMe
amino acid	amino acid	F	F	OEt
amino acid	amino acid	F	F	O-cyclopropyl
amino acid	amino acid	F	F	O-acetyl
amino acid	amino acid	F	F	SH
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	I
amino acid	H	F	F	H
amino acid	H	F	F	NH_2
amino acid	H	F	F	NH-cyclopropyl
amino acid	H	F	F	NH-methyl
amino acid	H	F	F	NH-ethyl
amino acid	H	F	F	NH-acetyl
amino acid	H	F	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	H	F	F	OMe
amino acid	H	F	F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	H	F	F	O-acetyl
amino acid	H	F	F	SH
amino acid	H	F	F	SMe
amino acid	H	F	F	SEt
amino acid	H	F	F	S-cyclopropyl
amino acid	H	F	F	F
amino acid	H	F	F	Cl
amino acid	H	F	F	Br
amino acid	H	F	F	I
amino acid	acyl	F	F	H
amino acid	acyl	F	F	NH_2
amino acid	acyl	F	F	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	F	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	F	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	F	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	F	Cl
amino acid	acyl	F	F	Br
amino acid	acyl	F	F	I
acyl	H	Cl	Cl	H
acyl	H	Cl	Cl	NH_2
acyl	H	Cl	Cl	NH-cyclopropyl
acyl	H	Cl	Cl	NH-methyl
acyl	H	Cl	Cl	NH-ethyl
acyl	H	Cl	Cl	NH-acetyl
acyl	H	Cl	Cl	OH
acyl	H	Cl	Cl	OMe
acyl	H	Cl	Cl	OEt
acyl	H	Cl	Cl	O-cyclopropyl
acyl	H	Cl	Cl	O-acetyl
acyl	H	Cl	Cl	SH
acyl	H	Cl	Cl	SMe
acyl	H	Cl	Cl	SEt
acyl	H	Cl	Cl	S-cyclopropyl
acyl	H	Cl	Cl	F

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	Cl	Cl
acyl	H	Cl	Cl	Br
acyl	H	Cl	Cl	I
acyl	acyl	Cl	Cl	H
acyl	acyl	Cl	Cl	NH_2
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	OH
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	amino acid	Cl	Cl	H
acyl	amino acid	Cl	Cl	NH_2
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
H	acyl	Cl	Cl	H
H	acyl	Cl	Cl	NH_2
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Cl	OH
H	acyl	Cl	Cl	OMe
H	acyl	Cl	Cl	OEt
H	acyl	Cl	Cl	O-cyclopropyl
H	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	Cl	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
H	acyl	Cl	Cl	F
H	acyl	Cl	Cl	Cl
H	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	I
H	amino acid	Cl	Cl	H
H	amino acid	Cl	Cl	NH_2
H	amino acid	Cl	Cl	NH-cyclopropyl
H	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Cl	Cl	OEt
H	amino acid	Cl	Cl	O-cyclopropyl
H	amino acid	Cl	Cl	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
H	amino acid	Cl	Cl	SEt
H	amino acid	Cl	Cl	S-cyclopropyl
H	amino acid	Cl	Cl	F
H	amino acid	Cl	Cl	Cl
H	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
amino acid	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH_2
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl
amino acid	amino acid	Cl	Cl	NH-acetyl
amino acid	amino acid	Cl	Cl	OH
amino acid	amino acid	Cl	Cl	OMe
amino acid	amino acid	Cl	Cl	OEt
amino acid	amino acid	Cl	Cl	O-cyclopropyl
amino acid	amino acid	Cl	Cl	O-acetyl
amino acid	amino acid	Cl	Cl	SH
amino acid	amino acid	Cl	Cl	SMe
amino acid	amino acid	Cl	Cl	SEt
amino acid	amino acid	Cl	Cl	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	Cl	F
amino acid	amino acid	Cl	Cl	Cl
amino acid	amino acid	Cl	Cl	Br
amino acid	amino acid	Cl	Cl	I
amino acid	H	Cl	Cl	H
amino acid	H	Cl	Cl	NH_2
amino acid	H	Cl	Cl	NH-cyclopropyl
amino acid	H	Cl	Cl	NH-methyl
amino acid	H	Cl	Cl	NH-ethyl
amino acid	H	Cl	Cl	NH-acetyl
amino acid	H	Cl	Cl	OH
amino acid	H	Cl	Cl	OMe
amino acid	H	Cl	Cl	OEt
amino acid	H	Cl	Cl	O-cyclopropyl
amino acid	H	Cl	Cl	O-acetyl
amino acid	H	Cl	Cl	SH
amino acid	H	Cl	Cl	SMe
amino acid	H	Cl	Cl	SEt
amino acid	H	Cl	Cl	S-cyclopropyl
amino acid	H	Cl	Cl	F
amino acid	H	Cl	Cl	Cl
amino acid	H	Cl	Cl	Br
amino acid	H	Cl	Cl	I
amino acid	acyl	Cl	Cl	H
amino acid	acyl	Cl	Cl	NH_2
amino acid	acyl	Cl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	Cl	NH-methyl
amino acid	acyl	Cl	Cl	NH-ethyl
amino acid	acyl	Cl	Cl	NH-acetyl
amino acid	acyl	Cl	Cl	OH
amino acid	acyl	Cl	Cl	OMe
amino acid	acyl	Cl	Cl	OEt
amino acid	acyl	Cl	Cl	O-cyclopropyl
amino acid	acyl	Cl	Cl	O-acetyl
amino acid	acyl	Cl	Cl	SH
amino acid	acyl	Cl	Cl	SMe
amino acid	acyl	Cl	Cl	SEt
amino acid	acyl	Cl	Cl	S-cyclopropyl
amino acid	acyl	Cl	Cl	F
amino acid	acyl	Cl	Cl	Cl
amino acid	acyl	Cl	Cl	Br
amino acid	acyl	Cl	Cl	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	S-cyclopropyl
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl
amino acid	amino acid	OH	OH	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	SH	SH	H
acyl	H	SH	SH	NH_2
acyl	H	SH	SH	NH-cyclopropyl
acyl	H	SH	SH	NH-methyl
acyl	H	SH	SH	NH-ethyl
acyl	H	SH	SH	NH-acetyl
acyl	H	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	H	SH	SH	SMe
acyl	H	SH	SH	SEt
acyl	H	SH	SH	S-cyclopropyl
acyl	H	SH	SH	F
acyl	H	SH	SH	Cl
acyl	H	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH_2
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	H
acyl	amino acid	SH	SH	NH_2
acyl	amino acid	SH	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	SH	NH-methyl
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	OH
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl
acyl	amino acid	SH	SH	SH
acyl	amino acid	SH	SH	SMe
acyl	amino acid	SH	SH	SEt
acyl	amino acid	SH	SH	S-cyclopropyl
acyl	amino acid	SH	SH	F
acyl	amino acid	SH	SH	Cl
acyl	amino acid	SH	SH	Br
acyl	amino acid	SH	SH	I
H	acyl	SH	SH	H
H	acyl	SH	SH	NH_2
H	acyl	SH	SH	NH-cyclopropyl
H	acyl	SH	SH	NH-methyl
H	acyl	SH	SH	NH-ethyl
H	acyl	SH	SH	NH-acetyl
H	acyl	SH	SH	OH
H	acyl	SH	SH	OMe
H	acyl	SH	SH	OEt
H	acyl	SH	SH	O-cyclopropyl
H	acyl	SH	SH	O-acetyl
H	acyl	SH	SH	SH
H	acyl	SH	SH	SMe
H	acyl	SH	SH	SEt
H	acyl	SH	SH	S-cyclopropyl
H	acyl	SH	SH	F
H	acyl	SH	SH	Cl
H	acyl	SH	SH	Br
H	acyl	SH	SH	I
H	amino acid	SH	SH	H
H	amino acid	SH	SH	NH_2
H	amino acid	SH	SH	NH-cyclopropyl
H	amino acid	SH	SH	NH-methyl
H	amino acid	SH	SH	NH-ethyl
H	amino acid	SH	SH	NH-acetyl
H	amino acid	SH	SH	OH
H	amino acid	SH	SH	OMe
H	amino acid	SH	SH	OEt
H	amino acid	SH	SH	O-cyclopropyl
H	amino acid	SH	SH	O-acetyl
H	amino acid	SH	SH	SH

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	SH	SMe
H	amino acid	SH	SH	SEt
H	amino acid	SH	SH	S-cyclopropyl
H	amino acid	SH	SH	F
H	amino acid	SH	SH	Cl
H	amino acid	SH	SH	Br
H	amino acid	SH	SH	I
amino acid	amino acid	SH	SH	H
amino acid	amino acid	SH	SH	NH_2
amino acid	amino acid	SH	SH	NH-cyclopropyl
amino acid	amino acid	SH	SH	NH-methyl
amino acid	amino acid	SH	SH	NH-ethyl
amino acid	amino acid	SH	SH	NH-acetyl
amino acid	amino acid	SH	SH	OH
amino acid	amino acid	SH	SH	OMe
amino acid	amino acid	SH	SH	OEt
amino acid	amino acid	SH	SH	O-cyclopropyl
amino acid	amino acid	SH	SH	O-acetyl
amino acid	amino acid	SH	SH	SH
amino acid	amino acid	SH	SH	SMe
amino acid	amino acid	SH	SH	SEt
amino acid	amino acid	SH	SH	S-cyclopropyl
amino acid	amino acid	SH	SH	F
amino acid	amino acid	SH	SH	Cl
amino acid	amino acid	SH	SH	Br
amino acid	amino acid	SH	SH	I
amino acid	H	SH	SH	H
amino acid	H	SH	SH	NH_2
amino acid	H	SH	SH	NH-cyclopropyl
amino acid	H	SH	SH	NH-methyl
amino acid	H	SH	SH	NH-ethyl
amino acid	H	SH	SH	NH-acetyl
amino acid	H	SH	SH	OH
amino acid	H	SH	SH	OMe
amino acid	H	SH	SH	OEt
amino acid	H	SH	SH	O-cyclopropyl
amino acid	H	SH	SH	O-acetyl
amino acid	H	SH	SH	SH
amino acid	H	SH	SH	SMe
amino acid	H	SH	SH	SEt
amino acid	H	SH	SH	S-cyclopropyl
amino acid	H	SH	SH	F
amino acid	H	SH	SH	Cl
amino acid	H	SH	SH	Br
amino acid	H	SH	SH	I
amino acid	acyl	SH	SH	H
amino acid	acyl	SH	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	SH	NH-cyclopropyl
amino acid	acyl	SH	SH	NH-methyl
amino acid	acyl	SH	SH	NH-ethyl
amino acid	acyl	SH	SH	NH-acetyl
amino acid	acyl	SH	SH	OH
amino acid	acyl	SH	SH	OMe
amino acid	acyl	SH	SH	OEt
amino acid	acyl	SH	SH	O-cyclopropyl
amino acid	acyl	SH	SH	O-acetyl
amino acid	acyl	SH	SH	SH
amino acid	acyl	SH	SH	SMe
amino acid	acyl	SH	SH	SEt
amino acid	acyl	SH	SH	S-cyclopropyl
amino acid	acyl	SH	SH	F
amino acid	acyl	SH	SH	Cl
amino acid	acyl	SH	SH	Br
amino acid	acyl	SH	SH	I

Table 14

R^2	R^3	X^1	Y
acyl	H	H	H
acyl	H	H	NH_2
acyl	H	H	NH-cyclopropyl
acyl	H	H	NH-methyl
acyl	H	H	NH-ethyl
acyl	H	H	NH-acetyl
acyl	H	H	OH
acyl	H	H	OMe
acyl	H	H	OEt
acyl	H	H	O-cyclopropyl
acyl	H	H	O-acetyl
acyl	H	H	SH
acyl	H	H	SMe
acyl	H	H	SEt
acyl	H	H	S-cyclopropyl
acyl	H	H	F
acyl	H	H	Cl
acyl	H	H	Br
acyl	H	H	I
acyl	acyl	H	H
acyl	acyl	H	NH_2
acyl	acyl	H	NH-cyclopropyl
acyl	acyl	H	NH-methyl
acyl	acyl	H	NH-ethyl
acyl	acyl	H	NH-acetyl
acyl	acyl	H	OH
acyl	acyl	H	OMe
acyl	acyl	H	OEt
acyl	acyl	H	O-cyclopropyl
acyl	acyl	H	O-acetyl
acyl	acyl	H	SH
acyl	acyl	H	SMe
acyl	acyl	H	SEt
acyl	acyl	H	S-cyclopropyl
acyl	acyl	H	F
acyl	acyl	H	Cl
acyl	acyl	H	Br
acyl	acyl	H	I
acyl	amino acid	H	H
acyl	amino acid	H	NH_2
acyl	amino acid	H	NH-cyclopropyl
acyl	amino acid	H	NH-methyl
acyl	amino acid	H	NH-ethyl
acyl	amino acid	H	NH-acetyl
acyl	amino acid	H	OH

R^2	R^3	X^1	Y
acyl	amino acid	H	OMe
acyl	amino acid	H	OEt
acyl	amino acid	H	O-cyclopropyl
acyl	amino acid	H	O-acetyl
acyl	amino acid	H	SH
acyl	amino acid	H	SMe
acyl	amino acid	H	SEt
acyl	amino acid	H	S-cyclopropyl
acyl	amino acid	H	F
acyl	amino acid	H	Cl
acyl	amino acid	H	Br
acyl	amino acid	H	I
H	acyl	H	H
H	acyl	H	NH_2
H	acyl	H	NH-cyclopropyl
H	acyl	H	NH-methyl
H	acyl	H	NH-ethyl
H	acyl	H	NH-acetyl
H	acyl	H	OH
H	acyl	H	OMe
H	acyl	H	OEt
H	acyl	H	O-cyclopropyl
H	acyl	H	O-acetyl
H	acyl	H	SH
H	acyl	H	SMe
H	acyl	H	SEt
H	acyl	H	S-cyclopropyl
H	acyl	H	F
H	acyl	H	Cl
H	acyl	H	Br
H	acyl	H	I
H	amino acid	H	H
H	amino acid	H	NH_2
H	amino acid	H	NH-cyclopropyl
H	amino acid	H	NH-methyl
H	amino acid	H	NH-ethyl
H	amino acid	H	NH-acetyl
H	amino acid	H	OH
H	amino acid	H	OMe
H	amino acid	H	OEt
H	amino acid	H	O-cyclopropyl
H	amino acid	H	O-acetyl
H	amino acid	H	SH
H	amino acid	H	SMe
H	amino acid	H	SEt
H	amino acid	H	S-cyclopropyl
H	amino acid	H	F

R^2	R^3	X^1	Y
H	amino acid	H	Cl
H	amino acid	H	Br
H	amino acid	H	I
amino acid	amino acid	H	H
amino acid	amino acid	H	NH_2
amino acid	amino acid	H	NH-cyclopropyl
amino acid	amino acid	H	NH-methyl
amino acid	amino acid	H	NH-ethyl
amino acid	amino acid	H	NH-acetyl
amino acid	amino acid	H	OH
amino acid	amino acid	H	OMe
amino acid	amino acid	H	OEt
amino acid	amino acid	H	O-cyclopropyl
amino acid	amino acid	H	O-acetyl
amino acid	amino acid	H	SH
amino acid	amino acid	H	SMe
amino acid	amino acid	H	SEt
amino acid	amino acid	H	S-cyclopropyl
amino acid	amino acid	H	F
amino acid	amino acid	H	Cl
amino acid	amino acid	H	Br
amino acid	amino acid	H	I
amino acid	H	H	H
amino acid	H	H	NH_2
amino acid	H	H	NH-cyclopropyl
amino acid	H	H	NH-methyl
amino acid	H	H	NH-ethyl
amino acid	H	H	NH-acetyl
amino acid	H	H	OH
amino acid	H	H	OMe
amino acid	H	H	OEt
amino acid	H	H	O-cyclopropyl
amino acid	H	H	O-acetyl
amino acid	H	H	SH
amino acid	H	H	SMe
amino acid	H	H	SEt
amino acid	H	H	S-cyclopropyl
amino acid	H	H	F
amino acid	H	H	Cl
amino acid	H	H	Br
amino acid	H	H	I
amino acid	acyl	H	H
amino acid	acyl	H	NH_2
amino acid	acyl	H	NH-cyclopropyl
amino acid	acyl	H	NH-methyl
amino acid	acyl	H	NH-ethyl
amino acid	acyl	H	NH-acetyl

R^2	R^3	X^1	Y
amino acid	acyl	H	OH
amino acid	acyl	H	OMe
amino acid	acyl	H	OEt
amino acid	acyl	H	O-cyclopropyl
amino acid	acyl	H	O-acetyl
amino acid	acyl	H	SH
amino acid	acyl	H	SMe
amino acid	acyl	H	SEt
amino acid	acyl	H	S-cyclopropyl
amino acid	acyl	H	F
amino acid	acyl	H	Cl
amino acid	acyl	H	Br
amino acid	acyl	H	I
acyl	H	SH	H
acyl	H	SH	NH_2
acyl	H	SH	NH-cyclopropyl
acyl	H	SH	NH-methyl
acyl	H	SH	NH-ethyl
acyl	H	SH	NH-acetyl
acyl	H	SH	OH
acyl	H	SH	OMe
acyl	H	SH	OEt
acyl	H	SH	O-cyclopropyl
acyl	H	SH	O-acetyl
acyl	H	SH	SH
acyl	H	SH	SMe
acyl	H	SH	SEt
acyl	H	SH	S-cyclopropyl
acyl	H	SH	F
acyl	H	SH	Cl
acyl	H	SH	Br
acyl	H	SH	I
acyl	acyl	SH	H
acyl	acyl	SH	NH_2
acyl	acyl	SH	NH-cyclopropyl
acyl	acyl	SH	NH-methyl
acyl	acyl	SH	NH-ethyl
acyl	acyl	SH	NH-acetyl
acyl	acyl	SH	OH
acyl	acyl	SH	OMe
acyl	acyl	SH	OEt
acyl	acyl	SH	O-cyclopropyl
acyl	acyl	SH	O-acetyl
acyl	acyl	SH	SH
acyl	acyl	SH	SMe
acyl	acyl	SH	SEt
acyl	acyl	SH	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	acyl	SH	F
acyl	acyl	SH	Cl
acyl	acyl	SH	Br
acyl	acyl	SH	I
acyl	amino acid	SH	H
acyl	amino acid	SH	NH_2
acyl	amino acid	SH	NH-cyclopropyl
acyl	amino acid	SH	NH-methyl
acyl	amino acid	SH	NH-ethyl
acyl	amino acid	SH	NH-acetyl
acyl	amino acid	SH	OH
acyl	amino acid	SH	OMe
acyl	amino acid	SH	OEt
acyl	amino acid	SH	O-cyclopropyl
acyl	amino acid	SH	O-acetyl
acyl	amino acid	SH	SH
acyl	amino acid	SH	SMe
acyl	amino acid	SH	SEt
acyl	amino acid	SH	S-cyclopropyl
acyl	amino acid	SH	F
acyl	amino acid	SH	Cl
acyl	amino acid	SH	Br
acyl	amino acid	SH	I
H	acyl	SH	H
H	acyl	SH	NH_2
H	acyl	SH	NH-cyclopropyl
H	acyl	SH	NH-methyl
H	acyl	SH	NH-ethyl
H	acyl	SH	NH-acetyl
H	acyl	SH	OH
H	acyl	SH	OMe
H	acyl	SH	OEt
H	acyl	SH	O-cyclopropyl
H	acyl	SH	O-acetyl
H	acyl	SH	SH
H	acyl	SH	SMe
H	acyl	SH	SEt
H	acyl	SH	S-cyclopropyl
H	acyl	SH	F
H	acyl	SH	Cl
H	acyl	SH	Br
H	acyl	SH	I
H	amino acid	SH	H
H	amino acid	SH	NH_2
H	amino acid	SH	NH-cyclopropyl
H	amino acid	SH	NH-methyl
H	amino acid	SH	NH-ethyl

R^2	R^3	X^1	Y
H	amino acid	SH	NH-acetyl
H	amino acid	SH	OH
H	amino acid	SH	OMe
H	amino acid	SH	OEt
H	amino acid	SH	O-cyclopropyl
H	amino acid	SH	O-acetyl
H	amino acid	SH	SH
H	amino acid	SH	SMe
H	amino acid	SH	SEt
H	amino acid	SH	S-cyclopropyl
H	amino acid	SH	F
H	amino acid	SH	Cl
H	amino acid	SH	Br
H	amino acid	SH	I
amino acid	amino acid	SH	H
amino acid	amino acid	SH	NH_2
amino acid	amino acid	SH	NH-cyclopropyl
amino acid	amino acid	SH	NH-methyl
amino acid	amino acid	SH	NH-ethyl
amino acid	amino acid	SH	NH-acetyl
amino acid	amino acid	SH	OH
amino acid	amino acid	SH	OMe
amino acid	amino acid	SH	OEt
amino acid	amino acid	SH	O-cyclopropyl
amino acid	amino acid	SH	O-acetyl
amino acid	amino acid	SH	SH
amino acid	amino acid	SH	SMe
amino acid	amino acid	SH	SEt
amino acid	amino acid	SH	S-cyclopropyl
amino acid	amino acid	SH	F
amino acid	amino acid	SH	Cl
amino acid	amino acid	SH	Br
amino acid	amino acid	SH	I
amino acid	H	SH	H
amino acid	H	SH	NH_2
amino acid	H	SH	NH-cyclopropyl
amino acid	H	SH	NH-methyl
amino acid	H	SH	NH-ethyl
amino acid	H	SH	NH-acetyl
amino acid	H	SH	OH
amino acid	H	SH	OMe
amino acid	H	SH	OEt
amino acid	H	SH	O-cyclopropyl
amino acid	H	SH	O-acetyl
amino acid	H	SH	SH
amino acid	H	SH	SMe
amino acid	H	SH	SEt

R^2	R^3	X^1	Y
amino acid	H	SH	S-cyclopropyl
amino acid	H	SH	F
amino acid	H	SH	Cl
amino acid	H	SH	Br
amino acid	H	SH	I
amino acid	acyl	SH	H
amino acid	acyl	SH	NH_2
amino acid	acyl	SH	NH-cyclopropyl
amino acid	acyl	SH	NH-methyl
amino acid	acyl	SH	NH-ethyl
amino acid	acyl	SH	NH-acetyl
amino acid	acyl	SH	OH
amino acid	acyl	SH	OMe
amino acid	acyl	SH	OEt
amino acid	acyl	SH	O-cyclopropyl
amino acid	acyl	SH	O-acetyl
amino acid	acyl	SH	SH
amino acid	acyl	SH	SMe
amino acid	acyl	SH	SEt
amino acid	acyl	SH	S-cyclopropyl
amino acid	acyl	SH	F
amino acid	acyl	SH	Cl
amino acid	acyl	SH	Br
amino acid	acyl	SH	I
acyl	H	Cl	H
acyl	H	Cl	NH_2
acyl	H	Cl	NH-cyclopropyl
acyl	H	Cl	NH-methyl
acyl	H	Cl	NH-ethyl
acyl	H	Cl	NH-acetyl
acyl	H	Cl	OH
acyl	H	Cl	OMe
acyl	H	Cl	OEt
acyl	H	Cl	O-cyclopropyl
acyl	H	Cl	O-acetyl
acyl	H	Cl	SH
acyl	H	Cl	SMe
acyl	H	Cl	SEt
acyl	H	Cl	S-cyclopropyl
acyl	H	Cl	F
acyl	H	Cl	Cl
acyl	H	Cl	Br
acyl	H	Cl	I
acyl	acyl	Cl	H
acyl	acyl	Cl	NH_2
acyl	acyl	Cl	NH-cyclopropyl
acyl	acyl	Cl	NH-methyl

R^2	R^3	X^1	Y
acyl	acyl	Cl	NH-ethyl
acyl	acyl	Cl	NH-acetyl
acyl	acyl	Cl	OH
acyl	acyl	Cl	OMe
acyl	acyl	Cl	OEt
acyl	acyl	Cl	O-cyclopropyl
acyl	acyl	Cl	O-acetyl
acyl	acyl	Cl	SH
acyl	acyl	Cl	SMe
acyl	acyl	Cl	SEt
acyl	acyl	Cl	S-cyclopropyl
acyl	acyl	Cl	F
acyl	acyl	Cl	Cl
acyl	acyl	Cl	Br
acyl	acyl	Cl	I
acyl	amino acid	Cl	H
acyl	amino acid	Cl	NH_2
acyl	amino acid	Cl	NH-cyclopropyl
acyl	amino acid	Cl	NH-methyl
acyl	amino acid	Cl	NH-ethyl
acyl	amino acid	Cl	NH-acetyl
acyl	amino acid	Cl	OH
acyl	amino acid	Cl	OMe
acyl	amino acid	Cl	OEt
acyl	amino acid	Cl	O-cyclopropyl
acyl	amino acid	Cl	O-acetyl
acyl	amino acid	Cl	SH
acyl	amino acid	Cl	SMe
acyl	amino acid	Cl	SEt
acyl	amino acid	Cl	S-cyclopropyl
acyl	amino acid	Cl	F
acyl	amino acid	Cl	Cl
acyl	amino acid	Cl	Br
acyl	amino acid	Cl	I
H	acyl	Cl	H
H	acyl	Cl	NH_2
H	acyl	Cl	NH-cyclopropyl
H	acyl	Cl	NH-methyl
H	acyl	Cl	NH-ethyl
H	acyl	Cl	NH-acetyl
H	acyl	Cl	OH
H	acyl	Cl	OMe
H	acyl	Cl	OEt
H	acyl	Cl	O-cyclopropyl
H	acyl	Cl	O-acetyl
H	acyl	Cl	SH
H	acyl	Cl	SMe

R^2	R^3	X^1	Y
H	acyl	Cl	SEt
H	acyl	Cl	S-cyclopropyl
H	acyl	Cl	F
H	acyl	Cl	Cl
H	acyl	Cl	Br
H	acyl	Cl	I
H	amino acid	Cl	H
H	amino acid	Cl	NH_2
H	amino acid	Cl	NH-cyclopropyl
H	amino acid	Cl	NH-methyl
H	amino acid	Cl	NH-ethyl
H	amino acid	Cl	NH-acetyl
H	amino acid	Cl	OH
H	amino acid	Cl	OMe
H	amino acid	Cl	OEt
H	amino acid	Cl	O-cyclopropyl
H	amino acid	Cl	O-acetyl
H	amino acid	Cl	SH
H	amino acid	Cl	SMe
H	amino acid	Cl	SEt
H	amino acid	Cl	S-cyclopropyl
H	amino acid	Cl	F
H	amino acid	Cl	Cl
H	amino acid	Cl	Br
H	amino acid	Cl	I
amino acid	amino acid	Cl	H
amino acid	amino acid	Cl	NH_2
amino acid	amino acid	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	NH-methyl
amino acid	amino acid	Cl	NH-ethyl
amino acid	amino acid	Cl	NH-acetyl
amino acid	amino acid	Cl	OH
amino acid	amino acid	Cl	OMe
amino acid	amino acid	Cl	OEt
amino acid	amino acid	Cl	O-cyclopropyl
amino acid	amino acid	Cl	O-acetyl
amino acid	amino acid	Cl	SH
amino acid	amino acid	Cl	SMe
amino acid	amino acid	Cl	SEt
amino acid	amino acid	Cl	S-cyclopropyl
amino acid	amino acid	Cl	F
amino acid	amino acid	Cl	Cl
amino acid	amino acid	Cl	Br
amino acid	amino acid	Cl	I
amino acid	H	Cl	H
amino acid	H	Cl	NH_2
amino acid	H	Cl	NH-cyclopropyl

R^2	R^3	X^1	Y
amino acid	H	Cl	NH-methyl
amino acid	H	Cl	NH-ethyl
amino acid	H	Cl	NH-acetyl
amino acid	H	Cl	OH
amino acid	H	Cl	OMe
amino acid	H	Cl	OEt
amino acid	H	Cl	O-cyclopropyl
amino acid	H	Cl	O-acetyl
amino acid	H	Cl	SH
amino acid	H	Cl	SMe
amino acid	H	Cl	SEt
amino acid	H	Cl	S-cyclopropyl
amino acid	H	Cl	F
amino acid	H	Cl	Cl
amino acid	H	Cl	Br
amino acid	H	Cl	I
amino acid	acyl	Cl	H
amino acid	acyl	Cl	NH_2
amino acid	acyl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	NH-methyl
amino acid	acyl	Cl	NH-ethyl
amino acid	acyl	Cl	NH-acetyl
amino acid	acyl	Cl	OH
amino acid	acyl	Cl	OMe
amino acid	acyl	Cl	OEt
amino acid	acyl	Cl	O-cyclopropyl
amino acid	acyl	Cl	O-acetyl
amino acid	acyl	Cl	SH
amino acid	acyl	Cl	SMe
amino acid	acyl	Cl	SEt
amino acid	acyl	Cl	S-cyclopropyl
amino acid	acyl	Cl	F
amino acid	acyl	Cl	Cl
amino acid	acyl	Cl	Br
amino acid	acyl	Cl	I
acyl	H	Br	H
acyl	H	Br	NH_2
acyl	H	Br	NH-cyclopropyl
acyl	H	Br	NH-methyl
acyl	H	Br	NH-ethyl
acyl	H	Br	NH-acetyl
acyl	H	Br	OH
acyl	H	Br	OMe
acyl	H	Br	OEt
acyl	H	Br	O-cyclopropyl
acyl	H	Br	O-acetyl
acyl	H	Br	SH

R^2	R^3	X^1	Y
acyl	H	Br	SMe
acyl	H	Br	SEt
acyl	H	Br	S-cyclopropyl
acyl	H	Br	F
acyl	H	Br	Cl
acyl	H	Br	Br
acyl	H	Br	I
acyl	acyl	Br	H
acyl	acyl	Br	NH_2
acyl	acyl	Br	NH-cyclopropyl
acyl	acyl	Br	NH-methyl
acyl	acyl	Br	NH-ethyl
acyl	acyl	Br	NH-acetyl
acyl	acyl	Br	OH
acyl	acyl	Br	OMe
acyl	acyl	Br	OEt
acyl	acyl	Br	O-cyclopropyl
acyl	acyl	Br	O-acetyl
acyl	acyl	Br	SH
acyl	acyl	Br	SMe
acyl	acyl	Br	SEt
acyl	acyl	Br	S-cyclopropyl
acyl	acyl	Br	F
acyl	acyl	Br	Cl
acyl	acyl	Br	Br
acyl	acyl	Br	I
acyl	amino acid	Br	H
acyl	amino acid	Br	NH_2
acyl	amino acid	Br	NH-cyclopropyl
acyl	amino acid	Br	NH-methyl
acyl	amino acid	Br	NH-ethyl
acyl	amino acid	Br	NH-acetyl
acyl	amino acid	Br	OH
acyl	amino acid	Br	OMe
acyl	amino acid	Br	OEt
acyl	amino acid	Br	O-cyclopropyl
acyl	amino acid	Br	O-acetyl
acyl	amino acid	Br	SH
acyl	amino acid	Br	SMe
acyl	amino acid	Br	SEt
acyl	amino acid	Br	S-cyclopropyl
acyl	amino acid	Br	F
acyl	amino acid	Br	Cl
acyl	amino acid	Br	Br
acyl	amino acid	Br	I
H	acyl	Br	H
H	acyl	Br	NH_2

R^2	R^3	X^1	Y
H	acyl	Br	NH-cyclopropyl
H	acyl	Br	NH-methyl
H	acyl	Br	NH-ethyl
H	acyl	Br	NH-acetyl
H	acyl	Br	OH
H	acyl	Br	OMe
H	acyl	Br	OEt
H	acyl	Br	O-cyclopropyl
H	acyl	Br	O-acetyl
H	acyl	Br	SH
H	acyl	Br	SMe
H	acyl	Br	SEt
H	acyl	Br	S-cyclopropyl
H	acyl	Br	F
H	acyl	Br	Cl
H	acyl	Br	Br
H	acyl	Br	I
H	amino acid	Br	H
H	amino acid	Br	NH_2
H	amino acid	Br	NH-cyclopropyl
H	amino acid	Br	NH-methyl
H	amino acid	Br	NH-ethyl
H	amino acid	Br	NH-acetyl
H	amino acid	Br	OH
H	amino acid	Br	OMe
H	amino acid	Br	OEt
H	amino acid	Br	O-cyclopropyl
H	amino acid	Br	O-acetyl
H	amino acid	Br	SH
H	amino acid	Br	SMe
H	amino acid	Br	SEt
H	amino acid	Br	S-cyclopropyl
H	amino acid	Br	F
H	amino acid	Br	Cl
H	amino acid	Br	Br
H	amino acid	Br	I
amino acid	amino acid	Br	H
amino acid	amino acid	Br	NH_2
amino acid	amino acid	Br	NH-cyclopropyl
amino acid	amino acid	Br	NH-methyl
amino acid	amino acid	Br	NH-ethyl
amino acid	amino acid	Br	NH-acetyl
amino acid	amino acid	Br	OH
amino acid	amino acid	Br	OMe
amino acid	amino acid	Br	OEt
amino acid	amino acid	Br	O-cyclopropyl
amino acid	amino acid	Br	O-acetyl

R^2	R^3	X^1	Y
amino acid	amino acid	Br	SH
amino acid	amino acid	Br	SMe
amino acid	amino acid	Br	SEt
amino acid	amino acid	Br	S-cyclopropyl
amino acid	amino acid	Br	F
amino acid	amino acid	Br	Cl
amino acid	amino acid	Br	Br
amino acid	amino acid	Br	I
amino acid	H	Br	H
amino acid	H	Br	NH_2
amino acid	H	Br	NH-cyclopropyl
amino acid	H	Br	NH-methyl
amino acid	H	Br	NH-ethyl
amino acid	H	Br	NH-acetyl
amino acid	H	Br	OH
amino acid	H	Br	OMe
amino acid	H	Br	OEt
amino acid	H	Br	O-cyclopropyl
amino acid	H	Br	O-acetyl
amino acid	H	Br	SH
amino acid	H	Br	SMe
amino acid	H	Br	SEt
amino acid	H	Br	S-cyclopropyl
amino acid	H	Br	F
amino acid	H	Br	Cl
amino acid	H	Br	Br
amino acid	H	Br	I
amino acid	acyl	Br	H
amino acid	acyl	Br	NH_2
amino acid	acyl	Br	NH-cyclopropyl
amino acid	acyl	Br	NH-methyl
amino acid	acyl	Br	NH-ethyl
amino acid	acyl	Br	NH-acetyl
amino acid	acyl	Br	OH
amino acid	acyl	Br	OMe
amino acid	acyl	Br	OEt
amino acid	acyl	Br	O-cyclopropyl
amino acid	acyl	Br	O-acetyl
amino acid	acyl	Br	SH
amino acid	acyl	Br	SMe
amino acid	acyl	Br	SEt
amino acid	acyl	Br	S-cyclopropyl
amino acid	acyl	Br	F
amino acid	acyl	Br	Cl
amino acid	acyl	Br	Br
amino acid	acyl	Br	I
acyl	H	NH_2	H

R^2	R^3	X^1	Y
acyl	H	NH_2	NH_2
acyl	H	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH-methyl
acyl	H	NH_2	NH-ethyl
acyl	H	NH_2	NH-acetyl
acyl	H	NH_2	OH
acyl	H	NH_2	OMe
acyl	H	NH_2	OEt
acyl	H	NH_2	O-cyclopropyl
acyl	H	NH_2	O-acetyl
acyl	H	NH_2	SH
acyl	H	NH_2	SMe
acyl	H	NH_2	SEt
acyl	H	NH_2	S-cyclopropyl
acyl	H	NH_2	F
acyl	H	NH_2	Cl
acyl	H	NH_2	Br
acyl	H	NH_2	I
acyl	acyl	NH_2	H
acyl	acyl	NH_2	NH_2
acyl	acyl	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH-methyl
acyl	acyl	NH_2	NH-ethyl
acyl	acyl	NH_2	NH-acetyl
acyl	acyl	NH_2	OH
acyl	acyl	NH_2	OMe
acyl	acyl	NH_2	OEt
acyl	acyl	NH_2	O-cyclopropyl
acyl	acyl	NH_2	O-acetyl
acyl	acyl	NH_2	SH
acyl	acyl	NH_2	SMe
acyl	acyl	NH_2	SEt
acyl	acyl	NH_2	S-cyclopropyl
acyl	acyl	NH_2	F
acyl	acyl	NH_2	Cl
acyl	acyl	NH_2	Br
acyl	acyl	NH_2	I
acyl	amino acid	NH_2	H
acyl	amino acid	NH_2	NH_2
acyl	amino acid	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH-methyl
acyl	amino acid	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH-acetyl
acyl	amino acid	NH_2	OH
acyl	amino acid	NH_2	OMe
acyl	amino acid	NH_2	OEt
acyl	amino acid	NH_2	O-cyclopropyl

R^2	R^3	X^1	Y
acyl	amino acid	NH_2	O-acetyl
acyl	amino acid	NH_2	SH
acyl	amino acid	NH_2	SMe
acyl	amino acid	NH_2	SEt
acyl	amino acid	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	F
acyl	amino acid	NH_2	Cl
acyl	amino acid	NH_2	Br
acyl	amino acid	NH_2	I
H	acyl	NH_2	H
H	acyl	NH_2	NH_2
H	acyl	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH-methyl
H	acyl	NH_2	NH-ethyl
H	acyl	NH_2	NH-acetyl
H	acyl	NH_2	OH
H	acyl	NH_2	OMe
H	acyl	NH_2	OEt
H	acyl	NH_2	O-cyclopropyl
H	acyl	NH_2	O-acetyl
H	acyl	NH_2	SH
H	acyl	NH_2	SMe
H	acyl	NH_2	SEt
H	acyl	NH_2	S-cyclopropyl
H	acyl	NH_2	F
H	acyl	NH_2	Cl
H	acyl	NH_2	Br
H	acyl	NH_2	I
H	amino acid	NH_2	H
H	amino acid	NH_2	NH_2
H	amino acid	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH-methyl
H	amino acid	NH_2	NH-ethyl
H	amino acid	NH_2	NH-acetyl
H	amino acid	NH_2	OH
H	amino acid	NH_2	OMe
H	amino acid	NH_2	OEt
H	amino acid	NH_2	O-cyclopropyl
H	amino acid	NH_2	O-acetyl
H	amino acid	NH_2	SH
H	amino acid	NH_2	SMe
H	amino acid	NH_2	SEt
H	amino acid	NH_2	S-cyclopropyl
H	amino acid	NH_2	F
H	amino acid	NH_2	Cl
H	amino acid	NH_2	Br
H	amino acid	NH_2	I

R^2	R^3	X^1	Y
amino acid	amino acid	NH_2	H
amino acid	amino acid	NH_2	NH_2
amino acid	amino acid	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH-acetyl
amino acid	amino acid	NH_2	OH
amino acid	amino acid	NH_2	OMe
amino acid	amino acid	NH_2	OEt
amino acid	amino acid	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	O-acetyl
amino acid	amino acid	NH_2	SH
amino acid	amino acid	NH_2	SMe
amino acid	amino acid	NH_2	SEt
amino acid	amino acid	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	F
amino acid	amino acid	NH_2	Cl
amino acid	amino acid	NH_2	Br
amino acid	amino acid	NH_2	I
amino acid	H	NH_2	H
amino acid	H	NH_2	NH_2
amino acid	H	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH-methyl
amino acid	H	NH_2	NH-ethyl
amino acid	H	NH_2	NH-acetyl
amino acid	H	NH_2	OH
amino acid	H	NH_2	OMe
amino acid	H	NH_2	OEt
amino acid	H	NH_2	O-cyclopropyl
amino acid	H	NH_2	O-acetyl
amino acid	H	NH_2	SH
amino acid	H	NH_2	SMe
amino acid	H	NH_2	SEt
amino acid	H	NH_2	S-cyclopropyl
amino acid	H	NH_2	F
amino acid	H	NH_2	Cl
amino acid	H	NH_2	Br
amino acid	H	NH_2	I
amino acid	acyl	NH_2	H
amino acid	acyl	NH_2	NH_2
amino acid	acyl	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH-methyl
amino acid	acyl	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH-acetyl
amino acid	acyl	NH_2	OH
amino acid	acyl	NH_2	OMe
amino acid	acyl	NH_2	OEt

R^2	R^3	X^1	Y
amino acid	acyl	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	O-acetyl
amino acid	acyl	NH_2	SH
amino acid	acyl	NH_2	SMe
amino acid	acyl	NH_2	SEt
amino acid	acyl	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	F
amino acid	acyl	NH_2	Cl
amino acid	acyl	NH_2	Br
amino acid	acyl	NH_2	I
acyl	H	OH	H
acyl	H	OH	NH_2
acyl	H	OH	NH-cyclopropyl
acyl	H	OH	NH-methyl
acyl	H	OH	NH-ethyl
acyl	H	OH	NH-acetyl
acyl	H	OH	OH
acyl	H	OH	OMe
acyl	H	OH	OEt
acyl	H	OH	O-cyclopropyl
acyl	H	OH	O-acetyl
acyl	H	OH	SH
acyl	H	OH	SMe
acyl	H	OH	SEt
acyl	H	OH	S-cyclopropyl
acyl	H	OH	F
acyl	H	OH	Cl
acyl	H	OH	Br
acyl	H	OH	I
acyl	acyl	OH	H
acyl	acyl	OH	NH_2
acyl	acyl	OH	NH-cyclopropyl
acyl	acyl	OH	NH-methyl
acyl	acyl	OH	NH-ethyl
acyl	acyl	OH	NH-acetyl
acyl	acyl	OH	OH
acyl	acyl	OH	OMe
acyl	acyl	OH	OEt
acyl	acyl	OH	O-cyclopropyl
acyl	acyl	OH	O-acetyl
acyl	acyl	OH	SH
acyl	acyl	OH	SMe
acyl	acyl	OH	SEt
acyl	acyl	OH	S-cyclopropyl
acyl	acyl	OH	F
acyl	acyl	OH	Cl
acyl	acyl	OH	Br

R^2	R^3	X^1	Y
acyl	acyl	OH	I
acyl	amino acid	OH	H
acyl	amino acid	OH	NH_2
acyl	amino acid	OH	NH-cyclopropyl
acyl	amino acid	OH	NH-methyl
acyl	amino acid	OH	NH-ethyl
acyl	amino acid	OH	NH-acetyl
acyl	amino acid	OH	OH
acyl	amino acid	OH	OMe
acyl	amino acid	OH	OEt
acyl	amino acid	OH	O-cyclopropyl
acyl	amino acid	OH	O-acetyl
acyl	amino acid	OH	SH
acyl	amino acid	OH	SMe
acyl	amino acid	OH	SEt
acyl	amino acid	OH	S-cyclopropyl
acyl	amino acid	OH	F
acyl	amino acid	OH	Cl
acyl	amino acid	OH	Br
acyl	amino acid	OH	I
H	acyl	OH	H
H	acyl	OH	NH_2
H	acyl	OH	NH-cyclopropyl
H	acyl	OH	NH-methyl
H	acyl	OH	NH-ethyl
H	acyl	OH	NH-acetyl
H	acyl	OH	OH
H	acyl	OH	OMe
H	acyl	OH	OEt
H	acyl	OH	O-cyclopropyl
H	acyl	OH	O-acetyl
H	acyl	OH	SH
H	acyl	OH	SMe
H	acyl	OH	SEt
H	acyl	OH	S-cyclopropyl
H	acyl	OH	F
H	acyl	OH	Cl
H	acyl	OH	Br
H	acyl	OH	I
H	amino acid	OH	H
H	amino acid	OH	NH_2
H	amino acid	OH	NH-cyclopropyl
H	amino acid	OH	NH-methyl
H	amino acid	OH	NH-ethyl
H	amino acid	OH	NH-acetyl
H	amino acid	OH	OH
H	amino acid	OH	OMe

R^2	R^3	X^1	Y
H	amino acid	OH	OEt
H	amino acid	OH	O-cyclopropyl
H	amino acid	OH	O-acetyl
H	amino acid	OH	SH
H	amino acid	OH	SMe
H	amino acid	OH	SEt
H	amino acid	OH	S-cyclopropyl
H	amino acid	OH	F
H	amino acid	OH	Cl
H	amino acid	OH	Br
H	amino acid	OH	I
amino acid	amino acid	OH	H
amino acid	amino acid	OH	NH_2
amino acid	amino acid	OH	NH-cyclopropyl
amino acid	amino acid	OH	NH-methyl
amino acid	amino acid	OH	NH-ethyl
amino acid	amino acid	OH	NH-acetyl
amino acid	amino acid	OH	OH
amino acid	amino acid	OH	OMe
amino acid	amino acid	OH	OEt
amino acid	amino acid	OH	O-cyclopropyl
amino acid	amino acid	OH	O-acetyl
amino acid	amino acid	OH	SH
amino acid	amino acid	OH	SMe
amino acid	amino acid	OH	SEt
amino acid	amino acid	OH	S-cyclopropyl
amino acid	amino acid	OH	F
amino acid	amino acid	OH	Cl
amino acid	amino acid	OH	Br
amino acid	amino acid	OH	I
amino acid	H	OH	H
amino acid	H	OH	NH_2
amino acid	H	OH	NH-cyclopropyl
amino acid	H	OH	NH-methyl
amino acid	H	OH	NH-ethyl
amino acid	H	OH	NH-acetyl
amino acid	H	OH	OH
amino acid	H	OH	OMe
amino acid	H	OH	OEt
amino acid	H	OH	O-cyclopropyl
amino acid	H	OH	O-acetyl
amino acid	H	OH	SH
amino acid	H	OH	SMe
amino acid	H	OH	SEt
amino acid	H	OH	S-cyclopropyl
amino acid	H	OH	F
amino acid	H	OH	Cl

R^2	R^3	X^1	Y
amino acid	H	OH	Br
amino acid	H	OH	I
amino acid	acyl	OH	H
amino acid	acyl	OH	NH_2
amino acid	acyl	OH	NH-cyclopropyl
amino acid	acyl	OH	NH-methyl
amino acid	acyl	OH	NH-ethyl
amino acid	acyl	OH	NH-acetyl
amino acid	acyl	OH	OH
amino acid	acyl	OH	OMe
amino acid	acyl	OH	OEt
amino acid	acyl	OH	O-cyclopropyl
amino acid	acyl	OH	O-acetyl
amino acid	acyl	OH	SH
amino acid	acyl	OH	SMe
amino acid	acyl	OH	SEt
amino acid	acyl	OH	S-cyclopropyl
amino acid	acyl	OH	F
amino acid	acyl	OH	Cl
amino acid	acyl	OH	Br
amino acid	acyl	OH	I
acyl	H	F	H
acyl	H	F	NH_2
acyl	H	F	NH-cyclopropyl
acyl	H	F	NH-methyl
acyl	H	F	NH-ethyl
acyl	H	F	NH-acetyl
acyl	H	F	OH
acyl	H	F	OMe
acyl	H	F	OEt
acyl	H	F	O-cyclopropyl
acyl	H	F	O-acetyl
acyl	H	F	SH
acyl	H	F	SMe
acyl	H	F	SEt
acyl	H	F	S-cyclopropyl
acyl	H	F	F
acyl	H	F	Cl
acyl	H	F	Br
acyl	H	F	I
acyl	acyl	F	H
acyl	acyl	F	NH_2
acyl	acyl	F	NH-cyclopropyl
acyl	acyl	F	NH-methyl
acyl	acyl	F	NH-ethyl
acyl	acyl	F	NH-acetyl
acyl	acyl	F	OH

R^2	R^3	X^1	Y
acyl	acyl	F	OMe
acyl	acyl	F	OEt
acyl	acyl	F	O-cyclopropyl
acyl	acyl	F	O-acetyl
acyl	acyl	F	SH
acyl	acyl	F	SMe
acyl	acyl	F	SEt
acyl	acyl	F	S-cyclopropyl
acyl	acyl	F	F
acyl	acyl	F	Cl
acyl	acyl	F	Br
acyl	acyl	F	I
acyl	amino acid	F	H
acyl	amino acid	F	NH_2
acyl	amino acid	F	NH-cyclopropyl
acyl	amino acid	F	NH-methyl
acyl	amino acid	F	NH-ethyl
acyl	amino acid	F	NH-acetyl
acyl	amino acid	F	OH
acyl	amino acid	F	OMe
acyl	amino acid	F	OEt
acyl	amino acid	F	O-cyclopropyl
acyl	amino acid	F	O-acetyl
acyl	amino acid	F	SH
acyl	amino acid	F	SMe
acyl	amino acid	F	SEt
acyl	amino acid	F	S-cyclopropyl
acyl	amino acid	F	F
acyl	amino acid	F	Cl
acyl	amino acid	F	Br
acyl	amino acid	F	I
H	acyl	F	H
H	acyl	F	NH_2
H	acyl	F	NH-cyclopropyl
H	acyl	F	NH-methyl
H	acyl	F	NH-ethyl
H	acyl	F	NH-acetyl
H	acyl	F	OH
H	acyl	F	OMe
H	acyl	F	OEt
H	acyl	F	O-cyclopropyl
H	acyl	F	O-acetyl
H	acyl	F	SH
H	acyl	F	SMe
H	acyl	F	SEt
H	acyl	F	S-cyclopropyl
H	acyl	F	F

R^2	R^3	X^1	Y
H	acyl	F	Cl
H	acyl	F	Br
H	acyl	F	I
H	amino acid	F	H
H	amino acid	F	NH_2
H	amino acid	F	NH-cyclopropyl
H	amino acid	F	NH-methyl
H	amino acid	F	NH-ethyl
H	amino acid	F	NH-acetyl
H	amino acid	F	OH
H	amino acid	F	OMe
H	amino acid	F	OEt
H	amino acid	F	O-cyclopropyl
H	amino acid	F	O-acetyl
H	amino acid	F	SH
H	amino acid	F	SMe
H	amino acid	F	SEt
H	amino acid	F	S-cyclopropyl
H	amino acid	F	F
H	amino acid	F	Cl
H	amino acid	F	Br
H	amino acid	F	I
amino acid	amino acid	F	H
amino acid	amino acid	F	NH_2
amino acid	amino acid	F	NH-cyclopropyl
amino acid	amino acid	F	NH-methyl
amino acid	amino acid	F	NH-ethyl
amino acid	amino acid	F	NH-acetyl
amino acid	amino acid	F	OH
amino acid	amino acid	F	OMe
amino acid	amino acid	F	OEt
amino acid	amino acid	F	O-cyclopropyl
amino acid	amino acid	F	O-acetyl
amino acid	amino acid	F	SH
amino acid	amino acid	F	SMe
amino acid	amino acid	F	SEt
amino acid	amino acid	F	S-cyclopropyl
amino acid	amino acid	F	F
amino acid	amino acid	F	Cl
amino acid	amino acid	F	Br
amino acid	amino acid	F	I
amino acid	H	F	H
amino acid	H	F	NH_2
amino acid	H	F	NH-cyclopropyl
amino acid	H	F	NH-methyl
amino acid	H	F	NH-ethyl
amino acid	H	F	NH-acetyl

R^2	R^3	X^1	Y
amino acid	H	F	OH
amino acid	H	F	OMe
amino acid	H	F	OEt
amino acid	H	F	O-cyclopropyl
amino acid	H	F	O-acetyl
amino acid	H	F	SH
amino acid	H	F	SMe
amino acid	H	F	SEt
amino acid	H	F	S-cyclopropyl
amino acid	H	F	F
amino acid	H	F	Cl
amino acid	H	F	Br
amino acid	H	F	I
amino acid	acyl	F	H
amino acid	acyl	F	NH_2
amino acid	acyl	F	NH-cyclopropyl
amino acid	acyl	F	NH-methyl
amino acid	acyl	F	NH-ethyl
amino acid	acyl	F	NH-acetyl
amino acid	acyl	F	OH
amino acid	acyl	F	OMe
amino acid	acyl	F	OEt
amino acid	acyl	F	O-cyclopropyl
amino acid	acyl	F	O-acetyl
amino acid	acyl	F	SH
amino acid	acyl	F	SMe
amino acid	acyl	F	SEt
amino acid	acyl	F	S-cyclopropyl
amino acid	acyl	F	F
amino acid	acyl	F	Cl
amino acid	acyl	F	Br
amino acid	acyl	F	I
acyl	H	I	H
acyl	H	I	NH_2
acyl	H	I	NH-cyclopropyl
acyl	H	I	NH-methyl
acyl	H	I	NH-ethyl
acyl	H	I	NH-acetyl
acyl	H	I	OH
acyl	H	I	OMe
acyl	H	I	OEt
acyl	H	I	O-cyclopropyl
acyl	H	I	O-acetyl
acyl	H	I	SH
acyl	H	I	SMe
acyl	H	I	SEt
acyl	H	I	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	H	I	F
acyl	H	I	Cl
acyl	H	I	Br
acyl	H	I	I
acyl	acyl	I	H
acyl	acyl	I	NH_2
acyl	acyl	I	NH-cyclopropyl
acyl	acyl	I	NH-methyl
acyl	acyl	I	NH-ethyl
acyl	acyl	I	NH-acetyl
acyl	acyl	I	OH
acyl	acyl	I	OMe
acyl	acyl	I	OEt
acyl	acyl	I	O-cyclopropyl
acyl	acyl	I	O-acetyl
acyl	acyl	I	SH
acyl	acyl	I	SMe
acyl	acyl	I	SEt
acyl	acyl	I	S-cyclopropyl
acyl	acyl	I	F
acyl	acyl	I	Cl
acyl	acyl	I	Br
acyl	acyl	I	I
acyl	amino acid	I	H
acyl	amino acid	I	NH_2
acyl	amino acid	I	NH-cyclopropyl
acyl	amino acid	I	NH-methyl
acyl	amino acid	I	NH-ethyl
acyl	amino acid	I	NH-acetyl
acyl	amino acid	I	OH
acyl	amino acid	I	OMe
acyl	amino acid	I	OEt
acyl	amino acid	I	O-cyclopropyl
acyl	amino acid	I	O-acetyl
acyl	amino acid	I	SH
acyl	amino acid	I	SMe
acyl	amino acid	I	SEt
acyl	amino acid	I	S-cyclopropyl
acyl	amino acid	I	F
acyl	amino acid	I	Cl
acyl	amino acid	I	Br
acyl	amino acid	I	I
H	acyl	I	H
H	acyl	I	NH_2
H	acyl	I	NH-cyclopropyl
H	acyl	I	NH-methyl
H	acyl	I	NH-ethyl

R^2	R^3	X^1	Y
H	acyl	I	NH-acetyl
H	acyl	I	OH
H	acyl	I	OMe
H	acyl	I	OEt
H	acyl	I	O-cyclopropyl
H	acyl	I	O-acetyl
H	acyl	I	SH
H	acyl	I	SMe
H	acyl	I	SEt
H	acyl	I	S-cyclopropyl
H	acyl	I	F
H	acyl	I	Cl
H	acyl	I	Br
H	acyl	I	I
H	amino acid	I	H
H	amino acid	I	NH_2
H	amino acid	I	NH-cyclopropyl
H	amino acid	I	NH-methyl
H	amino acid	I	NH-ethyl
H	amino acid	I	NH-acetyl
H	amino acid	I	OH
H	amino acid	I	OMe
H	amino acid	I	OEt
H	amino acid	I	O-cyclopropyl
H	amino acid	I	O-acetyl
H	amino acid	I	SH
H	amino acid	I	SMe
H	amino acid	I	SEt
H	amino acid	I	S-cyclopropyl
H	amino acid	I	F
H	amino acid	I	Cl
H	amino acid	I	Br
H	amino acid	I	I
amino acid	amino acid	I	H
amino acid	amino acid	I	NH_2
amino acid	amino acid	I	NH-cyclopropyl
amino acid	amino acid	I	NH-methyl
amino acid	amino acid	I	NH-ethyl
amino acid	amino acid	I	NH-acetyl
amino acid	amino acid	I	OH
amino acid	amino acid	I	OMe
amino acid	amino acid	I	OEt
amino acid	amino acid	I	O-cyclopropyl
amino acid	amino acid	I	O-acetyl
amino acid	amino acid	I	SH
amino acid	amino acid	I	SMe
amino acid	amino acid	I	SEt

R^2	R^3	X^1	Y
amino acid	amino acid	I	S-cyclopropyl
amino acid	amino acid	I	F
amino acid	amino acid	I	Cl
amino acid	amino acid	I	Br
amino acid	amino acid	I	I
amino acid	H	I	H
amino acid	H	I	NH_2
amino acid	H	I	NH-cyclopropyl
amino acid	H	I	NH-methyl
amino acid	H	I	NH-ethyl
amino acid	H	I	NH-acetyl
amino acid	H	I	OH
amino acid	H	I	OMe
amino acid	H	I	OEt
amino acid	H	I	O-cyclopropyl
amino acid	H	I	O-acetyl
amino acid	H	I	SH
amino acid	H	I	SMe
amino acid	H	I	SEt
amino acid	H	I	S-cyclopropyl
amino acid	H	I	F
amino acid	H	I	Cl
amino acid	H	I	Br
amino acid	H	I	I
amino acid	acyl	I	H
amino acid	acyl	I	NH_2
amino acid	acyl	I	NH-cyclopropyl
amino acid	acyl	I	NH-methyl
amino acid	acyl	I	NH-ethyl
amino acid	acyl	I	NH-acetyl
amino acid	acyl	I	OH
amino acid	acyl	I	OMe
amino acid	acyl	I	OEt
amino acid	acyl	I	O-cyclopropyl
amino acid	acyl	I	O-acetyl
amino acid	acyl	I	SH
amino acid	acyl	I	SMe
amino acid	acyl	I	SEt
amino acid	acyl	I	S-cyclopropyl
amino acid	acyl	I	F
amino acid	acyl	I	Cl
amino acid	acyl	I	Br
amino acid	acyl	I	I

Table 15

R^2	R^3	R^6	X	Base
acyl	H	CH_3	O	Thymine
acyl	H	CH_3	O	Uracil
acyl	H	CH_3	O	Guanine
acyl	H	CH_3	O	Cytosine
acyl	H	CH_3	O	Adenine
acyl	H	CH_3	O	Hypoxanthine
acyl	H	CH_3	O	5-Fluorouracil
acyl	H	CH_3	O	8-Fluoroguanine
acyl	H	CH_3	O	5-Fluorocytosine
acyl	H	CH_3	O	8-Fluoroadenine
acyl	H	CH_3	O	2-Fluoroadenine
acyl	H	CH_3	O	2,8-Difluoroadenine
acyl	H	CH_3	O	2-Fluorohypoxanthine
acyl	H	CH_3	O	8-Fluorohypoxanthine
acyl	H	CH_3	O	2,8-Difluorohypoxanthine
acyl	H	CH_3	O	2-Aminoadenine
acyl	H	CH_3	O	2-Amino-8-fluoroadenine
acyl	H	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-Aminohypoxanthine
acyl	H	CH_3	O	2-N-acetylguanine
acyl	H	CH_3	O	4-N-acetylcytosine
acyl	H	CH_3	O	6-N-acetyladenine
acyl	H	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylaminoadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	O	Thymine
acyl	acyl	CH_3	O	Uracil
acyl	acyl	CH_3	O	Guanine
acyl	acyl	CH_3	O	Cytosine
acyl	acyl	CH_3	O	Adenine
acyl	acyl	CH_3	O	Hypoxanthine
acyl	acyl	CH_3	O	5-Fluorouracil
acyl	acyl	CH_3	O	8-Fluoroguanine
acyl	acyl	CH_3	O	5-Fluorocytosine
acyl	acyl	CH_3	O	8-Fluoroadenine
acyl	acyl	CH_3	O	2-Fluoroadenine
acyl	acyl	CH_3	O	2,8-Difluoroadenine
acyl	acyl	CH_3	O	2-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CH_3	O	8-Fluorohypoxanthine
acyl	acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminoadenine
acyl	acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylguanine
acyl	acyl	CH_3	O	4-N-acetylcytosine
acyl	acyl	CH_3	O	6-N-acetyladenine
acyl	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylaminoadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	O	Thymine
acyl	amino acid	CH_3	O	Uracil
acyl	amino acid	CH_3	O	Guanine
acyl	amino acid	CH_3	O	Cytosine
acyl	amino acid	CH_3	O	Adenine
acyl	amino acid	CH_3	O	Hypoxanthine
acyl	amino acid	CH_3	O	5-Fluorouracil
acyl	amino acid	CH_3	O	8-Fluoroguanine
acyl	amino acid	CH_3	O	5-Fluorocytosine
acyl	amino acid	CH_3	O	8-Fluoroadenine
acyl	amino acid	CH_3	O	2-Fluoroadenine
acyl	amino acid	CH_3	O	2,8-Difluoroadenine
acyl	amino acid	CH_3	O	2-Fluorohypoxanthine
acyl	amino acid	CH_3	O	8-Fluorohypoxanthine
acyl	amino acid	CH_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminoadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylguanine
acyl	amino acid	CH_3	O	4-N-acetylcytosine
acyl	amino acid	CH_3	O	6-N-acetyladenine
acyl	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	O	2-N-acetylaminoadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
H	acyl	CH_3	O	Thymine
H	acyl	CH_3	O	Uracil
H	acyl	CH_3	O	Guanine
H	acyl	CH_3	O	Cytosine
H	acyl	CH_3	O	Adenine
H	acyl	CH_3	O	Hypoxanthine
H	acyl	CH_3	O	5-Fluorouracil
H	acyl	CH_3	O	8-Fluoroguanine
H	acyl	CH_3	O	5-Fluorocytosine
H	acyl	CH_3	O	8-Fluoroadenine
H	acyl	CH_3	O	2-Fluoroadenine
H	acyl	CH_3	O	2,8-Difluoroadenine
H	acyl	CH_3	O	2-Fluorohypoxanthine
H	acyl	CH_3	O	8-Fluorohypoxanthine
H	acyl	CH_3	O	2,8-Difluorohypoxanthine
H	acyl	CH_3	O	2-Aminoadenine
H	acyl	CH_3	O	2-Amino-8-fluoroadenine
H	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-Aminohypoxanthine
H	acyl	CH_3	O	2-N-acetylguanine
H	acyl	CH_3	O	4-N-acetylcytosine
H	acyl	CH_3	O	6-N-acetyladenine
H	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylaminoadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	O	Thymine
H	amino acid	CH_3	O	Uracil
H	amino acid	CH_3	O	Guanine
H	amino acid	CH_3	O	Cytosine
H	amino acid	CH_3	O	Adenine
H	amino acid	CH_3	O	Hypoxanthine
H	amino acid	CH_3	O	5-Fluorouracil
H	amino acid	CH_3	O	8-Fluoroguanine
H	amino acid	CH_3	O	5-Fluorocytosine
H	amino acid	CH_3	O	8-Fluoroadenine
H	amino acid	CH_3	O	2-Fluoroadenine

R^2	R^3	R^6	X	Base
H	amino acid	CH_3	O	2,8-Difluoroadenine
H	amino acid	CH_3	O	2-Fluorohypoxanthine
H	amino acid	CH_3	O	8-Fluorohypoxanthine
H	amino acid	CH_3	O	2,8-Difluorohypoxanthine
H	amino acid	CH_3	O	2-Aminoadenine
H	amino acid	CH_3	O	2-Amino-8-fluoroadenine
H	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-Aminohypoxanthine
H	amino acid	CH_3	O	2-N-acetylguanine
H	amino acid	CH_3	O	4-N-acetylcytosine
H	amino acid	CH_3	O	6-N-acetyladenine
H	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylaminoadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	O	Thymine
amino acid	amino acid	CH_3	O	Uracil
amino acid	amino acid	CH_3	O	Guanine
amino acid	amino acid	CH_3	O	Cytosine
amino acid	amino acid	CH_3	O	Adenine
amino acid	amino acid	CH_3	O	Hypoxanthine
amino acid	amino acid	CH_3	O	5-Fluorouracil
amino acid	amino acid	CH_3	O	8-Fluoroguanine
amino acid	amino acid	CH_3	O	5-Fluorocytosine
amino acid	amino acid	CH_3	O	8-Fluoroadenine
amino acid	amino acid	CH_3	O	2-Fluoroadenine
amino acid	amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminoadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylguanine
amino acid	amino acid	CH_3	O	4-N-acetylcytosine
amino acid	amino acid	CH_3	O	6-N-acetyladenine
amino acid	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	O	Thymine
amino acid	H	CH_3	O	Uracil
amino acid	H	CH_3	O	Guanine
amino acid	H	CH_3	O	Cytosine
amino acid	H	CH_3	O	Adenine
amino acid	H	CH_3	O	Hypoxanthine
amino acid	H	CH_3	O	5-Fluorouracil
amino acid	H	CH_3	O	8-Fluoroguanine
amino acid	H	CH_3	O	5-Fluorocytosine
amino acid	H	CH_3	O	8-Fluoroadenine
amino acid	H	CH_3	O	2-Fluoroadenine
amino acid	H	CH_3	O	2,8-Difluoroadenine
amino acid	H	CH_3	O	2-Fluorohypoxanthine
amino acid	H	CH_3	O	8-Fluorohypoxanthine
amino acid	H	CH_3	O	2,8-Difluorohypoxanthine
amino acid	H	CH_3	O	2-Aminoadenine
amino acid	H	CH_3	O	2-Amino-8-fluoroadenine
amino acid	H	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-Aminohypoxanthine
amino acid	H	CH_3	O	2-N-acetylguanine
amino acid	H	CH_3	O	4-N-acetylcytosine
amino acid	H	CH_3	O	6-N-acetyladenine
amino acid	H	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylaminoadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	O	Thymine
amino acid	acyl	CH_3	O	Uracil
amino acid	acyl	CH_3	O	Guanine
amino acid	acyl	CH_3	O	Cytosine
amino acid	acyl	CH_3	O	Adenine
amino acid	acyl	CH_3	O	Hypoxanthine
amino acid	acyl	CH_3	O	5-Fluorouracil
amino acid	acyl	CH_3	O	8-Fluoroguanine
amino acid	acyl	CH_3	O	5-Fluorocytosine

R^2	R^3	R^6	X	Base
amino acid	acyl	CH_3	O	8-Fluoroadenine
amino acid	acyl	CH_3	O	2-Fluoroadenine
amino acid	acyl	CH_3	O	2,8-Difluoroadenine
amino acid	acyl	CH_3	O	2-Fluorohypoxanthine
amino acid	acyl	CH_3	O	8-Fluorohypoxanthine
amino acid	acyl	CH_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminoadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylguanine
amino acid	acyl	CH_3	O	4-N-acetylcytosine
amino acid	acyl	CH_3	O	6-N-acetyladenine
amino acid	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylaminoadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	H	CH_3	S	Thymine
acyl	H	CH_3	S	Uracil
acyl	H	CH_3	S	Guanine
acyl	H	CH_3	S	Cytosine
acyl	H	CH_3	S	Adenine
acyl	H	CH_3	S	Hypoxanthine
acyl	H	CH_3	S	5-Fluorouracil
acyl	H	CH_3	S	8-Fluoroguanine
acyl	H	CH_3	S	5-Fluorocytosine
acyl	H	CH_3	S	8-Fluoroadenine
acyl	H	CH_3	S	2-Fluoroadenine
acyl	H	CH_3	S	2,8-Difluoroadenine
acyl	H	CH_3	S	2-Fluorohypoxanthine
acyl	H	CH_3	S	8-Fluorohypoxanthine
acyl	H	CH_3	S	2,8-Difluorohypoxanthine
acyl	H	CH_3	S	2-Aminoadenine
acyl	H	CH_3	S	2-Amino-8-fluoroadenine
acyl	H	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-Aminohypoxanthine
acyl	H	CH_3	S	2-N-acetylguanine
acyl	H	CH_3	S	4-N-acetylcytosine
acyl	H	CH_3	S	6-N-acetyladenine
acyl	H	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	S	4-N-acetyl-5-fluorocytosine

R^2	R^3	R^6	X	Base
acyl	H	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylaminoadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	S	Thymine
acyl	acyl	CH_3	S	Uracil
acyl	acyl	CH_3	S	Guanine
acyl	acyl	CH_3	S	Cytosine
acyl	acyl	CH_3	S	Adenine
acyl	acyl	CH_3	S	Hypoxanthine
acyl	acyl	CH_3	S	5-Fluorouracil
acyl	acyl	CH_3	S	8-Fluoroguanine
acyl	acyl	CH_3	S	5-Fluorocytosine
acyl	acyl	CH_3	S	8-Fluoroadenine
acyl	acyl	CH_3	S	2-Fluoroadenine
acyl	acyl	CH_3	S	2,8-Difluoroadenine
acyl	acyl	CH_3	S	2-Fluorohypoxanthine
acyl	acyl	CH_3	S	8-Fluorohypoxanthine
acyl	acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminoadenine
acyl	acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylguanine
acyl	acyl	CH_3	S	4-N-acetylcytosine
acyl	acyl	CH_3	S	6-N-acetyladenine
acyl	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylaminoadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	S	Thymine
acyl	amino acid	CH_3	S	Uracil
acyl	amino acid	CH_3	S	Guanine
acyl	amino acid	CH_3	S	Cytosine
acyl	amino acid	CH_3	S	Adenine
acyl	amino acid	CH_3	S	Hypoxanthine
acyl	amino acid	CH_3	S	5-Fluorouracil

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	S	8-Fluoroguanine
acyl	amino acid	CH_3	S	5-Fluorocytosine
acyl	amino acid	CH_3	S	8-Fluoroadenine
acyl	amino acid	CH_3	S	2-Fluoroadenine
acyl	amino acid	CH_3	S	2,8-Difluoroadenine
acyl	amino acid	CH_3	S	2-Fluorohypoxanthine
acyl	amino acid	CH_3	S	8-Fluorohypoxanthine
acyl	amino acid	CH_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminoadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylguanine
acyl	amino acid	CH_3	S	4-N-acetylcytosine
acyl	amino acid	CH_3	S	6-N-acetyladenine
acyl	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylaminoadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
H	acyl	CH_3	S	Thymine
H	acyl	CH_3	S	Uracil
H	acyl	CH_3	S	Guanine
H	acyl	CH_3	S	Cytosine
H	acyl	CH_3	S	Adenine
H	acyl	CH_3	S	Hypoxanthine
H	acyl	CH_3	S	5-Fluorouracil
H	acyl	CH_3	S	8-Fluoroguanine
H	acyl	CH_3	S	5-Fluorocytosine
H	acyl	CH_3	S	8-Fluoroadenine
H	acyl	CH_3	S	2-Fluoroadenine
H	acyl	CH_3	S	2,8-Difluoroadenine
H	acyl	CH_3	S	2-Fluorohypoxanthine
H	acyl	CH_3	S	8-Fluorohypoxanthine
H	acyl	CH_3	S	2,8-Difluorohypoxanthine
H	acyl	CH_3	S	2-Aminoadenine
H	acyl	CH_3	S	2-Amino-8-fluoroadenine
H	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-Aminohypoxanthine
H	acyl	CH_3	S	2-N-acetylguanine
H	acyl	CH_3	S	4-N-acetylcytosine
H	acyl	CH_3	S	6-N-acetyladenine

R^2	R^3	R^6	X	Base
H	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylaminoadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	S	Thymine
H	amino acid	CH_3	S	Uracil
H	amino acid	CH_3	S	Guanine
H	amino acid	CH_3	S	Cytosine
H	amino acid	CH_3	S	Adenine
H	amino acid	CH_3	S	Hypoxanthine
H	amino acid	CH_3	S	5-Fluorouracil
H	amino acid	CH_3	S	8-Fluoroguanine
H	amino acid	CH_3	S	5-Fluorocytosine
H	amino acid	CH_3	S	8-Fluoroadenine
H	amino acid	CH_3	S	2-Fluoroadenine
H	amino acid	CH_3	S	2,8-Difluoroadenine
H	amino acid	CH_3	S	2-Fluorohypoxanthine
H	amino acid	CH_3	S	8-Fluorohypoxanthine
H	amino acid	CH_3	S	2,8-Difluorohypoxanthine
H	amino acid	CH_3	S	2-Aminoadenine
H	amino acid	CH_3	S	2-Amino-8-fluoroadenine
H	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-Aminohypoxanthine
H	amino acid	CH_3	S	2-N-acetylguanine
H	amino acid	CH_3	S	4-N-acetylcytosine
H	amino acid	CH_3	S	6-N-acetyladenine
H	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylaminoadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	S	Thymine
amino acid	amino acid	CH_3	S	Uracil
amino acid	amino acid	CH_3	S	Guanine
amino acid	amino acid	CH_3	S	Cytosine
amino acid	amino acid	CH_3	S	Adenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	S	Hypoxanthine
amino acid	amino acid	CH_3	S	5-Fluorouracil
amino acid	amino acid	CH_3	S	8-Fluoroguanine
amino acid	amino acid	CH_3	S	5-Fluorocytosine
amino acid	amino acid	CH_3	S	8-Fluoroadenine
amino acid	amino acid	CH_3	S	2-Fluoroadenine
amino acid	amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminoadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylguanine
amino acid	amino acid	CH_3	S	4-N-acetylcytosine
amino acid	amino acid	CH_3	S	6-N-acetyladenine
amino acid	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	S	Thymine
amino acid	H	CH_3	S	Uracil
amino acid	H	CH_3	S	Guanine
amino acid	H	CH_3	S	Cytosine
amino acid	H	CH_3	S	Adenine
amino acid	H	CH_3	S	Hypoxanthine
amino acid	H	CH_3	S	5-Fluorouracil
amino acid	H	CH_3	S	8-Fluoroguanine
amino acid	H	CH_3	S	5-Fluorocytosine
amino acid	H	CH_3	S	8-Fluoroadenine
amino acid	H	CH_3	S	2-Fluoroadenine
amino acid	H	CH_3	S	2,8-Difluoroadenine
amino acid	H	CH_3	S	2-Fluorohypoxanthine
amino acid	H	CH_3	S	8-Fluorohypoxanthine
amino acid	H	CH_3	S	2,8-Difluorohypoxanthine
amino acid	H	CH_3	S	2-Aminoadenine
amino acid	H	CH_3	S	2-Amino-8-fluoroadenine
amino acid	H	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-Aminohypoxanthine
amino acid	H	CH_3	S	2-N-acetylguanine

R^2	R^3	R^6	X	Base
amino acid	H	CH_3	S	4-N-acetylcytosine
amino acid	H	CH_3	S	6-N-acetyladenine
amino acid	H	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylaminoadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	S	Thymine
amino acid	acyl	CH_3	S	Uracil
amino acid	acyl	CH_3	S	Guanine
amino acid	acyl	CH_3	S	Cytosine
amino acid	acyl	CH_3	S	Adenine
amino acid	acyl	CH_3	S	Hypoxanthine
amino acid	acyl	CH_3	S	5-Fluorouracil
amino acid	acyl	CH_3	S	8-Fluoroguanine
amino acid	acyl	CH_3	S	5-Fluorocytosine
amino acid	acyl	CH_3	S	8-Fluoroadenine
amino acid	acyl	CH_3	S	2-Fluoroadenine
amino acid	acyl	CH_3	S	2,8-Difluoroadenine
amino acid	acyl	CH_3	S	2-Fluorohypoxanthine
amino acid	acyl	CH_3	S	8-Fluorohypoxanthine
amino acid	acyl	CH_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminoadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylguanine
amino acid	acyl	CH_3	S	4-N-acetylcytosine
amino acid	acyl	CH_3	S	6-N-acetyladenine
amino acid	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylaminoadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	S	Thymine
acyl	H	CF_3	S	Uracil
acyl	H	CF_3	S	Guanine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	S	Cytosine
acyl	H	CF_3	S	Adenine
acyl	H	CF_3	S	Hypoxanthine
acyl	H	CF_3	S	5-Fluorouracil
acyl	H	CF_3	S	8-Fluoroguanine
acyl	H	CF_3	S	5-Fluorocytosine
acyl	H	CF_3	S	8-Fluoroadenine
acyl	H	CF_3	S	2-Fluoroadenine
acyl	H	CF_3	S	2,8-Difluoroadenine
acyl	H	CF_3	S	2-Fluorohypoxanthine
acyl	H	CF_3	S	8-Fluorohypoxanthine
acyl	H	CF_3	S	2,8-Difluorohypoxanthine
acyl	H	CF_3	S	2-Aminoadenine
acyl	H	CF_3	S	2-Amino-8-fluoroadenine
acyl	H	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-Aminohypoxanthine
acyl	H	CF_3	S	2-N-acetylguanine
acyl	H	CF_3	S	4-N-acetylcytosine
acyl	H	CF_3	S	6-N-acetyladenine
acyl	H	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylaminoadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	S	Thymine
acyl	acyl	CF_3	S	Uracil
acyl	acyl	CF_3	S	Guanine
acyl	acyl	CF_3	S	Cytosine
acyl	acyl	CF_3	S	Adenine
acyl	acyl	CF_3	S	Hypoxanthine
acyl	acyl	CF_3	S	5-Fluorouracil
acyl	acyl	CF_3	S	8-Fluoroguanine
acyl	acyl	CF_3	S	5-Fluorocytosine
acyl	acyl	CF_3	S	8-Fluoroadenine
acyl	acyl	CF_3	S	2-Fluoroadenine
acyl	acyl	CF_3	S	2,8-Difluoroadenine
acyl	acyl	CF_3	S	2-Fluorohypoxanthine
acyl	acyl	CF_3	S	8-Fluorohypoxanthine
acyl	acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	S	2-Aminoadenine
acyl	acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CF_3	S	2-Aminohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylguanine
acyl	acyl	CF_3	S	4-N-acetylcytosine
acyl	acyl	CF_3	S	6-N-acetyladenine
acyl	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylaminoadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	S	Thymine
acyl	amino acid	CF_3	S	Uracil
acyl	amino acid	CF_3	S	Guanine
acyl	amino acid	CF_3	S	Cytosine
acyl	amino acid	CF_3	S	Adenine
acyl	amino acid	CF_3	S	Hypoxanthine
acyl	amino acid	CF_3	S	5-Fluorouracil
acyl	amino acid	CF_3	S	8-Fluoroguanine
acyl	amino acid	CF_3	S	5-Fluorocytosine
acyl	amino acid	CF_3	S	8-Fluoroadenine
acyl	amino acid	CF_3	S	2-Fluoroadenine
acyl	amino acid	CF_3	S	2,8-Difluoroadenine
acyl	amino acid	CF_3	S	2-Fluorohypoxanthine
acyl	amino acid	CF_3	S	8-Fluorohypoxanthine
acyl	amino acid	CF_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminoadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylguanine
acyl	amino acid	CF_3	S	4-N-acetylcytosine
acyl	amino acid	CF_3	S	6-N-acetyladenine
acyl	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylaminoadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
H	acyl	CF_3	S	Thymine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	S	Uracil
H	acyl	CF_3	S	Guanine
H	acyl	CF_3	S	Cytosine
H	acyl	CF_3	S	Adenine
H	acyl	CF_3	S	Hypoxanthine
H	acyl	CF_3	S	5-Fluorouracil
H	acyl	CF_3	S	8-Fluoroguanine
H	acyl	CF_3	S	5-Fluorocytosine
H	acyl	CF_3	S	8-Fluoroadenine
H	acyl	CF_3	S	2-Fluoroadenine
H	acyl	CF_3	S	2,8-Difluoroadenine
H	acyl	CF_3	S	2-Fluorohypoxanthine
H	acyl	CF_3	S	8-Fluorohypoxanthine
H	acyl	CF_3	S	2,8-Difluorohypoxanthine
H	acyl	CF_3	S	2-Aminoadenine
H	acyl	CF_3	S	2-Amino-8-fluoroadenine
H	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-Aminohypoxanthine
H	acyl	CF_3	S	2-N-acetylguanine
H	acyl	CF_3	S	4-N-acetylcytosine
H	acyl	CF_3	S	6-N-acetyladenine
H	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylaminoadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	S	Thymine
H	amino acid	CF_3	S	Uracil
H	amino acid	CF_3	S	Guanine
H	amino acid	CF_3	S	Cytosine
H	amino acid	CF_3	S	Adenine
H	amino acid	CF_3	S	Hypoxanthine
H	amino acid	CF_3	S	5-Fluorouracil
H	amino acid	CF_3	S	8-Fluoroguanine
H	amino acid	CF_3	S	5-Fluorocytosine
H	amino acid	CF_3	S	8-Fluoroadenine
H	amino acid	CF_3	S	2-Fluoroadenine
H	amino acid	CF_3	S	2,8-Difluoroadenine
H	amino acid	CF_3	S	2-Fluorohypoxanthine
H	amino acid	CF_3	S	8-Fluorohypoxanthine
H	amino acid	CF_3	S	2,8-Difluorohypoxanthine
H	amino acid	CF_3	S	2-Aminoadenine

R^2	R^3	R^6	X	Base
H	amino acid	CF_3	S	2-Amino-8-fluoroadenine
H	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-Aminohypoxanthine
H	amino acid	CF_3	S	2-N-acetylguanine
H	amino acid	CF_3	S	4-N-acetylcytosine
H	amino acid	CF_3	S	6-N-acetyladenine
H	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylaminoadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	S	Thymine
amino acid	amino acid	CF_3	S	Uracil
amino acid	amino acid	CF_3	S	Guanine
amino acid	amino acid	CF_3	S	Cytosine
amino acid	amino acid	CF_3	S	Adenine
amino acid	amino acid	CF_3	S	Hypoxanthine
amino acid	amino acid	CF_3	S	5-Fluorouracil
amino acid	amino acid	CF_3	S	8-Fluoroguanine
amino acid	amino acid	CF_3	S	5-Fluorocytosine
amino acid	amino acid	CF_3	S	8-Fluoroadenine
amino acid	amino acid	CF_3	S	2-Fluoroadenine
amino acid	amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminoadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	amino acid	CF_3	S	2-N-acetylguanine
amino acid	amino acid	CF_3	S	4-N-acetylcytosine
amino acid	amino acid	CF_3	S	6-N-acetyladenine
amino acid	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	S	Thymine
amino acid	H	CF_3	S	Uracil
amino acid	H	CF_3	S	Guanine
amino acid	H	CF_3	S	Cytosine
amino acid	H	CF_3	S	Adenine
amino acid	H	CF_3	S	Hypoxanthine
amino acid	H	CF_3	S	5-Fluorouracil
amino acid	H	CF_3	S	8-Fluoroguanine
amino acid	H	CF_3	S	5-Fluorocytosine
amino acid	H	CF_3	S	8-Fluoroadenine
amino acid	H	CF_3	S	2-Fluoroadenine
amino acid	H	CF_3	S	2,8-Difluoroadenine
amino acid	H	CF_3	S	2-Fluorohypoxanthine
amino acid	H	CF_3	S	8-Fluorohypoxanthine
amino acid	H	CF_3	S	2,8-Difluorohypoxanthine
amino acid	H	CF_3	S	2-Aminoadenine
amino acid	H	CF_3	S	2-Amino-8-fluoroadenine
amino acid	H	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-Aminohypoxanthine
amino acid	H	CF_3	S	2-N-acetylguanine
amino acid	H	CF_3	S	4-N-acetylcytosine
amino acid	H	CF_3	S	6-N-acetyladenine
amino acid	H	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylaminoadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	S	Thymine
amino acid	acyl	CF_3	S	Uracil
amino acid	acyl	CF_3	S	Guanine
amino acid	acyl	CF_3	S	Cytosine
amino acid	acyl	CF_3	S	Adenine
amino acid	acyl	CF_3	S	Hypoxanthine
amino acid	acyl	CF_3	S	5-Fluorouracil
amino acid	acyl	CF_3	S	8-Fluoroguanine
amino acid	acyl	CF_3	S	5-Fluorocytosine
amino acid	acyl	CF_3	S	8-Fluoroadenine
amino acid	acyl	CF_3	S	2-Fluoroadenine
amino acid	acyl	CF_3	S	2,8-Difluoroadenine
amino acid	acyl	CF_3	S	2-Fluorohypoxanthine
amino acid	acyl	CF_3	S	8-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	acyl	CF_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminoadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylguanine
amino acid	acyl	CF_3	S	4-N-acetylcytosine
amino acid	acyl	CF_3	S	6-N-acetyladenine
amino acid	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylaminoadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	O	Thymine
acyl	H	CF_3	O	Uracil
acyl	H	CF_3	O	Guanine
acyl	H	CF_3	O	Cytosine
acyl	H	CF_3	O	Adenine
acyl	H	CF_3	O	Hypoxanthine
acyl	H	CF_3	O	5-Fluorouracil
acyl	H	CF_3	O	8-Fluoroguanine
acyl	H	CF_3	O	5-Fluorocytosine
acyl	H	CF_3	O	8-Fluoroadenine
acyl	H	CF_3	O	2-Fluoroadenine
acyl	H	CF_3	O	2,8-Difluoroadenine
acyl	H	CF_3	O	2-Fluorohypoxanthine
acyl	H	CF_3	O	8-Fluorohypoxanthine
acyl	H	CF_3	O	2,8-Difluorohypoxanthine
acyl	H	CF_3	O	2-Aminoadenine
acyl	H	CF_3	O	2-Amino-8-fluoroadenine
acyl	H	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-Aminohypoxanthine
acyl	H	CF_3	O	2-N-acetylguanine
acyl	H	CF_3	O	4-N-acetylcytosine
acyl	H	CF_3	O	6-N-acetyladenine
acyl	H	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylaminoadenine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	O	Thymine
acyl	acyl	CF_3	O	Uracil
acyl	acyl	CF_3	O	Guanine
acyl	acyl	CF_3	O	Cytosine
acyl	acyl	CF_3	O	Adenine
acyl	acyl	CF_3	O	Hypoxanthine
acyl	acyl	CF_3	O	5-Fluorouracil
acyl	acyl	CF_3	O	8-Fluoroguanine
acyl	acyl	CF_3	O	5-Fluorocytosine
acyl	acyl	CF_3	O	8-Fluoroadenine
acyl	acyl	CF_3	O	2-Fluoroadenine
acyl	acyl	CF_3	O	2,8-Difluoroadenine
acyl	acyl	CF_3	O	2-Fluorohypoxanthine
acyl	acyl	CF_3	O	8-Fluorohypoxanthine
acyl	acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminoadenine
acyl	acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylguanine
acyl	acyl	CF_3	O	4-N-acetylcytosine
acyl	acyl	CF_3	O	6-N-acetyladenine
acyl	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylaminoadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	O	Thymine
acyl	amino acid	CF_3	O	Uracil
acyl	amino acid	CF_3	O	Guanine
acyl	amino acid	CF_3	O	Cytosine
acyl	amino acid	CF_3	O	Adenine
acyl	amino acid	CF_3	O	Hypoxanthine
acyl	amino acid	CF_3	O	5-Fluorouracil
acyl	amino acid	CF_3	O	8-Fluoroguanine
acyl	amino acid	CF_3	O	5-Fluorocytosine
acyl	amino acid	CF_3	O	8-Fluoroadenine
acyl	amino acid	CF_3	O	2-Fluoroadenine
acyl	amino acid	CF_3	O	2,8-Difluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CF_3	O	2-Fluorohypoxanthine
acyl	amino acid	CF_3	O	8-Fluorohypoxanthine
acyl	amino acid	CF_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminoadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylguanine
acyl	amino acid	CF_3	O	4-N-acetylcytosine
acyl	amino acid	CF_3	O	6-N-acetyladenine
acyl	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylaminoadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
H	acyl	CF_3	O	Thymine
H	acyl	CF_3	O	Uracil
H	acyl	CF_3	O	Guanine
H	acyl	CF_3	O	Cytosine
H	acyl	CF_3	O	Adenine
H	acyl	CF_3	O	Hypoxanthine
H	acyl	CF_3	O	5-Fluorouracil
H	acyl	CF_3	O	8-Fluoroguanine
H	acyl	CF_3	O	5-Fluorocytosine
H	acyl	CF_3	O	8-Fluoroadenine
H	acyl	CF_3	O	2-Fluoroadenine
H	acyl	CF_3	O	2,8-Difluoroadenine
H	acyl	CF_3	O	2-Fluorohypoxanthine
H	acyl	CF_3	O	8-Fluorohypoxanthine
H	acyl	CF_3	O	2,8-Difluorohypoxanthine
H	acyl	CF_3	O	2-Aminoadenine
H	acyl	CF_3	O	2-Amino-8-fluoroadenine
H	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-Aminohypoxanthine
H	acyl	CF_3	O	2-N-acetylguanine
H	acyl	CF_3	O	4-N-acetylcytosine
H	acyl	CF_3	O	6-N-acetyladenine
H	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2-aminoadenine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylaminoadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	O	Thymine
H	amino acid	CF_3	O	Uracil
H	amino acid	CF_3	O	Guanine
H	amino acid	CF_3	O	Cytosine
H	amino acid	CF_3	O	Adenine
H	amino acid	CF_3	O	Hypoxanthine
H	amino acid	CF_3	O	5-Fluorouracil
H	amino acid	CF_3	O	8-Fluoroguanine
H	amino acid	CF_3	O	5-Fluorocytosine
H	amino acid	CF_3	O	8-Fluoroadenine
H	amino acid	CF_3	O	2-Fluoroadenine
H	amino acid	CF_3	O	2,8-Difluoroadenine
H	amino acid	CF_3	O	2-Fluorohypoxanthine
H	amino acid	CF_3	O	8-Fluorohypoxanthine
H	amino acid	CF_3	O	2,8-Difluorohypoxanthine
H	amino acid	CF_3	O	2-Aminoadenine
H	amino acid	CF_3	O	2-Amino-8-fluoroadenine
H	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-Aminohypoxanthine
H	amino acid	CF_3	O	2-N-acetylguanine
H	amino acid	CF_3	O	4-N-acetylcytosine
H	amino acid	CF_3	O	6-N-acetyladenine
H	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylaminoadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	O	Thymine
amino acid	amino acid	CF_3	O	Uracil
amino acid	amino acid	CF_3	O	Guanine
amino acid	amino acid	CF_3	O	Cytosine
amino acid	amino acid	CF_3	O	Adenine
amino acid	amino acid	CF_3	O	Hypoxanthine
amino acid	amino acid	CF_3	O	5-Fluorouracil
amino acid	amino acid	CF_3	O	8-Fluoroguanine
amino acid	amino acid	CF_3	O	5-Fluorocytosine
amino acid	amino acid	CF_3	O	8-Fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	O	2-Fluoroadenine
amino acid	amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminoadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylguanine
amino acid	amino acid	CF_3	O	4-N-acetylcytosine
amino acid	amino acid	CF_3	O	6-N-acetyladenine
amino acid	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	O	Thymine
amino acid	H	CF_3	O	Uracil
amino acid	H	CF_3	O	Guanine
amino acid	H	CF_3	O	Cytosine
amino acid	H	CF_3	O	Adenine
amino acid	H	CF_3	O	Hypoxanthine
amino acid	H	CF_3	O	5-Fluorouracil
amino acid	H	CF_3	O	8-Fluoroguanine
amino acid	H	CF_3	O	5-Fluorocytosine
amino acid	H	CF_3	O	8-Fluoroadenine
amino acid	H	CF_3	O	2-Fluoroadenine
amino acid	H	CF_3	O	2,8-Difluoroadenine
amino acid	H	CF_3	O	2-Fluorohypoxanthine
amino acid	H	CF_3	O	8-Fluorohypoxanthine
amino acid	H	CF_3	O	2,8-Difluorohypoxanthine
amino acid	H	CF_3	O	2-Aminoadenine
amino acid	H	CF_3	O	2-Amino-8-fluoroadenine
amino acid	H	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-Aminohypoxanthine
amino acid	H	CF_3	O	2-N-acetylguanine
amino acid	H	CF_3	O	4-N-acetylcytosine
amino acid	H	CF_3	O	6-N-acetyladenine
amino acid	H	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	O	6-N-acetyl-2-fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylaminoadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	O	Thymine
amino acid	acyl	CF_3	O	Uracil
amino acid	acyl	CF_3	O	Guanine
amino acid	acyl	CF_3	O	Cytosine
amino acid	acyl	CF_3	O	Adenine
amino acid	acyl	CF_3	O	Hypoxanthine
amino acid	acyl	CF_3	O	5-Fluorouracil
amino acid	acyl	CF_3	O	8-Fluoroguanine
amino acid	acyl	CF_3	O	5-Fluorocytosine
amino acid	acyl	CF_3	O	8-Fluoroadenine
amino acid	acyl	CF_3	O	2-Fluoroadenine
amino acid	acyl	CF_3	O	2,8-Difluoroadenine
amino acid	acyl	CF_3	O	2-Fluorohypoxanthine
amino acid	acyl	CF_3	O	8-Fluorohypoxanthine
amino acid	acyl	CF_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminoadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylguanine
amino acid	acyl	CF_3	O	4-N-acetylcytosine
amino acid	acyl	CF_3	O	6-N-acetyladenine
amino acid	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylaminoadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylaminohypoxanthine

Table 16

R^2	R^6	X	Base
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine
amino acid	CH_3	O	2,8-Difluoroadenine

R^2	R^6	X	Base
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine

R^2	R^6	X	Base
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine

R^2	R^6	X	Base
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine

R^2	R^6	X	Base
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine

Table 17

R^2	R^6	X	Base
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine
amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine

R^2	R^6	X	Base
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^6	X	Base
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine

R^2	R^6	X	Base
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine

R^2	R^6	X	Base
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine

Table 18

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	Thymine	F	O-acyl
CH_3	H	O	Uracil	F	O-acyl
CH_3	H	O	Guanine	F	O-acyl
CH_3	H	O	Cytosine	F	O-acyl
CH_3	H	O	Adenine	F	O-acyl
CH_3	H	O	Hypoxanthine	F	O-acyl
CH_3	H	O	5-Fluorouracil	F	O-acyl
CH_3	H	O	8-Fluoroguanine	F	O-acyl
CH_3	H	O	5-Fluorocytosine	F	O-acyl
CH_3	H	O	8-Fluoroadenine	F	O-acyl
CH_3	H	O	2-Fluoroadenine	F	O-acyl
CH_3	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	O	2-Aminoadenine	F	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	O	2-N-acetylguanine	F	O-acyl
CH_3	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	O	6-N-acetyladenine	F	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	O	Thymine	F	O-acyl
CH_3	O-amino acid	O	Uracil	F	O-acyl
CH_3	O-amino acid	O	Guanine	F	O-acyl
CH_3	O-amino acid	O	Cytosine	F	O-acyl
CH_3	O-amino acid	O	Adenine	F	O-acyl
CH_3	O-amino acid	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	O	Thymine	F	O-acyl
CH_3	O-acyl	O	Uracil	F	O-acyl
CH_3	O-acyl	O	Guanine	F	O-acyl
CH_3	O-acyl	O	Cytosine	F	O-acyl
CH_3	O-acyl	O	Adenine	F	O-acyl
CH_3	O-acyl	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	O	Thymine	F	O-acyl
CH_3	OH	O	Uracil	F	O-acyl
CH_3	OH	O	Guanine	F	O-acyl
CH_3	OH	O	Cytosine	F	O-acyl
CH_3	OH	O	Adenine	F	O-acyl
CH_3	OH	O	Hypoxanthine	F	O-acyl
CH_3	OH	O	5-Fluorouracil	F	O-acyl
CH_3	OH	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	O	2-Aminoadenine	F	O-acyl
CH_3	OH	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	O	Thymine	Br	O-acyl
CH_3	H	O	Uracil	Br	O-acyl
CH_3	H	O	Guanine	Br	O-acyl
CH_3	H	O	Cytosine	Br	O-acyl
CH_3	H	O	Adenine	Br	O-acyl
CH_3	H	O	Hypoxanthine	Br	O-acyl
CH_3	H	O	5-Fluorouracil	Br	O-acyl
CH_3	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	O	2-Fluoroadenine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	O	2-Aminoadenine	Br	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	Thymine	Br	O-acyl
CH_3	O-amino acid	O	Uracil	Br	O-acyl
CH_3	O-amino acid	O	Guanine	Br	O-acyl
CH_3	O-amino acid	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	O	Adenine	Br	O-acyl
CH_3	O-amino acid	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	Thymine	Br	O-acyl
CH_3	O-acyl	O	Uracil	Br	O-acyl
CH_3	O-acyl	O	Guanine	Br	O-acyl
CH_3	O-acyl	O	Cytosine	Br	O-acyl
CH_3	O-acyl	O	Adenine	Br	O-acyl
CH_3	O-acyl	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	O	Thymine	Br	O-acyl
CH_3	OH	O	Uracil	Br	O-acyl
CH_3	OH	O	Guanine	Br	O-acyl
CH_3	OH	O	Cytosine	Br	O-acyl
CH_3	OH	O	Adenine	Br	O-acyl
CH_3	OH	O	Hypoxanthine	Br	O-acyl
CH_3	OH	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	O	5-Fluorocytosine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	O	Thymine	Cl	O-acyl
CH_3	O-acyl	O	Uracil	Cl	O-acyl
CH_3	O-acyl	O	Guanine	Cl	O-acyl
CH_3	O-acyl	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	O	Adenine	Cl	O-acyl
CH_3	O-acyl	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	O	Thymine	Cl	O-acyl
CH_3	OH	O	Uracil	Cl	O-acyl
CH_3	OH	O	Guanine	Cl	O-acyl
CH_3	OH	O	Cytosine	Cl	O-acyl
CH_3	OH	O	Adenine	Cl	O-acyl
CH_3	OH	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	O	Thymine	Cl	O-acyl
CH_3	H	O	Uracil	Cl	O-acyl
CH_3	H	O	Guanine	Cl	O-acyl
CH_3	H	O	Cytosine	Cl	O-acyl
CH_3	H	O	Adenine	Cl	O-acyl
CH_3	H	O	Hypoxanthine	Cl	O-acyl
CH_3	H	O	5-Fluorouracil	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	O	6-N-acetyladenine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	O	Thymine	H	O-acyl
CH_3	H	O	Uracil	H	O-acyl
CH_3	H	O	Guanine	H	O-acyl
CH_3	H	O	Cytosine	H	O-acyl
CH_3	H	O	Adenine	H	O-acyl
CH_3	H	O	Hypoxanthine	H	O-acyl
CH_3	H	O	5-Fluorouracil	H	O-acyl
CH_3	H	O	8-Fluoroguanine	H	O-acyl
CH_3	H	O	5-Fluorocytosine	H	O-acyl
CH_3	H	O	8-Fluoroadenine	H	O-acyl
CH_3	H	O	2-Fluoroadenine	H	O-acyl
CH_3	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	O	2-Aminoadenine	H	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	O	2-N-acetylguanine	H	O-acyl
CH_3	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	O	6-N-acetyladenine	H	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	Thymine	H	O-acyl
CH_3	O-amino acid	O	Uracil	H	O-acyl
CH_3	O-amino acid	O	Guanine	H	O-acyl
CH_3	O-amino acid	O	Cytosine	H	O-acyl
CH_3	O-amino acid	O	Adenine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	O	Thymine	H	O-acyl
CH_3	O-acyl	O	Uracil	H	O-acyl
CH_3	O-acyl	O	Guanine	H	O-acyl
CH_3	O-acyl	O	Cytosine	H	O-acyl
CH_3	O-acyl	O	Adenine	H	O-acyl
CH_3	O-acyl	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	O	2-N-acetylguanine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	O	Thymine	H	O-acyl
CH_3	OH	O	Uracil	H	O-acyl
CH_3	OH	O	Guanine	H	O-acyl
CH_3	OH	O	Cytosine	H	O-acyl
CH_3	OH	O	Adenine	H	O-acyl
CH_3	OH	O	Hypoxanthine	H	O-acyl
CH_3	OH	O	5-Fluorouracil	H	O-acyl
CH_3	OH	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	O	2-Aminoadenine	H	O-acyl
CH_3	OH	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	O	Thymine	OH	O-acyl
CH_3	H	O	Uracil	OH	O-acyl
CH_3	H	O	Guanine	OH	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	Cytosine	OH	O-acyl
CH_3	H	O	Adenine	OH	O-acyl
CH_3	H	O	Hypoxanthine	OH	O-acyl
CH_3	H	O	5-Fluorouracil	OH	O-acyl
CH_3	H	O	8-Fluoroguanine	OH	O-acyl
CH_3	H	O	5-Fluorocytosine	OH	O-acyl
CH_3	H	O	8-Fluoroadenine	OH	O-acyl
CH_3	H	O	2-Fluoroadenine	OH	O-acyl
CH_3	H	O	2,8-Difluoroadenine	OH	O-acyl
CH_3	H	O	2-Fluorohypoxanthine	OH	O-acyl
CH_3	H	O	8-Fluorohypoxanthine	OH	O-acyl
CH_3	H	O	2,8-Difluorohypoxanthine	OH	O-acyl
CH_3	H	O	2-Aminoadenine	OH	O-acyl
CH_3	H	O	2-Amino-8-fluoroadenine	OH	O-acyl
CH_3	H	O	2-Amino-8-fluorohypoxanthine	OH	O-acyl
CH_3	H	O	2-Aminohypoxanthine	OH	O-acyl
CH_3	H	O	2-N-acetylguanine	OH	O-acyl
CH_3	H	O	4-N-acetylcytosine	OH	O-acyl
CH_3	H	O	6-N-acetyladenine	OH	O-acyl
CH_3	H	O	2-N-acetyl-8-fluoroguanine	OH	O-acyl
CH_3	H	O	4-N-acetyl-5-fluorocytosine	OH	O-acyl
CH_3	H	O	6-N-acetyl-2-fluoroadenine	OH	O-acyl
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	OH	O-acyl
CH_3	H	O	6-N-acetyl-2-aminoadenine	OH	O-acyl
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-acyl
CH_3	H	O	2-N-acetylaminoadenine	OH	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	OH	O-acyl
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	O-acyl
CH_3	H	O	2-N-acetylaminohypoxanthine	OH	O-acyl
CH_3	H	O	Thymine	F	O-amino acid
CH_3	H	O	Uracil	F	O-amino acid
CH_3	H	O	Guanine	F	O-amino acid
CH_3	H	O	Cytosine	F	O-amino acid
CH_3	H	O	Adenine	F	O-amino acid
CH_3	H	O	Hypoxanthine	F	O-amino acid
CH_3	H	O	5-Fluorouracil	F	O-amino acid
CH_3	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	O	2-Aminoadenine	F	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	Thymine	F	O-amino acid
CH_3	O-amino acid	O	Uracil	F	O-amino acid
CH_3	O-amino acid	O	Guanine	F	O-amino acid
CH_3	O-amino acid	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	O	Adenine	F	O-amino acid
CH_3	O-amino acid	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	Thymine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Uracil	F	O-amino acid
CH_3	O-acyl	O	Guanine	F	O-amino acid
CH_3	O-acyl	O	Cytosine	F	O-amino acid
CH_3	O-acyl	O	Adenine	F	O-amino acid
CH_3	O-acyl	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	O	Thymine	F	O-amino acid
CH_3	OH	O	Uracil	F	O-amino acid
CH_3	OH	O	Guanine	F	O-amino acid
CH_3	OH	O	Cytosine	F	O-amino acid
CH_3	OH	O	Adenine	F	O-amino acid
CH_3	OH	O	Hypoxanthine	F	O-amino acid
CH_3	OH	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	O	2-Aminoadenine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	O	Thymine	Br	O-amino acid
CH_3	H	O	Uracil	Br	O-amino acid
CH_3	H	O	Guanine	Br	O-amino acid
CH_3	H	O	Cytosine	Br	O-amino acid
CH_3	H	O	Adenine	Br	O-amino acid
CH_3	H	O	Hypoxanthine	Br	O-amino acid
CH_3	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	Thymine	Br	O-amino acid
CH_3	O-acyl	O	Uracil	Br	O-amino acid
CH_3	O-acyl	O	Guanine	Br	O-amino acid
CH_3	O-acyl	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	O	Adenine	Br	O-amino acid
CH_3	O-acyl	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	8-Fluorohypoxanthine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	O	Thymine	Br	O-amino acid
CH_3	OH	O	Uracil	Br	O-amino acid
CH_3	OH	O	Guanine	Br	O-amino acid
CH_3	OH	O	Cytosine	Br	O-amino acid
CH_3	OH	O	Adenine	Br	O-amino acid
CH_3	OH	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	O	2-N-acetylaminoadenine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	O	Thymine	Cl	O-amino acid
CH_3	H	O	Uracil	Cl	O-amino acid
CH_3	H	O	Guanine	Cl	O-amino acid
CH_3	H	O	Cytosine	Cl	O-amino acid
CH_3	H	O	Adenine	Cl	O-amino acid
CH_3	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2,8-Difluoroadenine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	O	Thymine	Cl	O-amino acid
CH_3	OH	O	Uracil	Cl	O-amino acid
CH_3	OH	O	Guanine	Cl	O-amino acid
CH_3	OH	O	Cytosine	Cl	O-amino acid
CH_3	OH	O	Adenine	Cl	O-amino acid
CH_3	OH	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	O	Thymine	H	O-amino acid
CH_3	H	O	Uracil	H	O-amino acid
CH_3	H	O	Guanine	H	O-amino acid
CH_3	H	O	Cytosine	H	O-amino acid
CH_3	H	O	Adenine	H	O-amino acid
CH_3	H	O	Hypoxanthine	H	O-amino acid
CH_3	H	O	5-Fluorouracil	H	O-amino acid
CH_3	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	O	8-Fluoroadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	O	2-Aminoadenine	H	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	Thymine	H	O-amino acid
CH_3	O-amino acid	O	Uracil	H	O-amino acid
CH_3	O-amino acid	O	Guanine	H	O-amino acid
CH_3	O-amino acid	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	O	Adenine	H	O-amino acid
CH_3	O-amino acid	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	Thymine	H	O-amino acid
CH_3	O-acyl	O	Uracil	H	O-amino acid
CH_3	O-acyl	O	Guanine	H	O-amino acid
CH_3	O-acyl	O	Cytosine	H	O-amino acid
CH_3	O-acyl	O	Adenine	H	O-amino acid
CH_3	O-acyl	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	O	Thymine	H	O-amino acid
CH_3	OH	O	Uracil	H	O-amino acid
CH_3	OH	O	Guanine	H	O-amino acid
CH_3	OH	O	Cytosine	H	O-amino acid
CH_3	OH	O	Adenine	H	O-amino acid
CH_3	OH	O	Hypoxanthine	H	O-amino acid
CH_3	OH	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	O	8-Fluoroguanine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	O	Thymine	OH	O-amino acid
CH_3	H	O	Uracil	OH	O-amino acid
CH_3	H	O	Guanine	OH	O-amino acid
CH_3	H	O	Cytosine	OH	O-amino acid
CH_3	H	O	Adenine	OH	O-amino acid
CH_3	H	O	Hypoxanthine	OH	O-amino acid
CH_3	H	O	5-Fluorouracil	OH	O-amino acid
CH_3	H	O	8-Fluoroguanine	OH	O-amino acid
CH_3	H	O	5-Fluorocytosine	OH	O-amino acid
CH_3	H	O	8-Fluoroadenine	OH	O-amino acid
CH_3	H	O	2-Fluoroadenine	OH	O-amino acid
CH_3	H	O	2,8-Difluoroadenine	OH	O-amino acid
CH_3	H	O	2-Fluorohypoxanthine	OH	O-amino acid
CH_3	H	O	8-Fluorohypoxanthine	OH	O-amino acid
CH_3	H	O	2,8-Difluorohypoxanthine	OH	O-amino acid
CH_3	H	O	2-Aminoadenine	OH	O-amino acid
CH_3	H	O	2-Amino-8-fluoroadenine	OH	O-amino acid
CH_3	H	O	2-Amino-8-fluorohypoxanthine	OH	O-amino acid
CH_3	H	O	2-Aminohypoxanthine	OH	O-amino acid
CH_3	H	O	2-N-acetylguanine	OH	O-amino acid
CH_3	H	O	4-N-acetylcytosine	OH	O-amino acid
CH_3	H	O	6-N-acetyladenine	OH	O-amino acid
CH_3	H	O	2-N-acetyl-8-fluoroguanine	OH	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	O	4-N-acetyl-5-fluorocytosine	OH	O-amino acid
CH_3	H	O	6-N-acetyl-2-fluoroadenine	OH	O-amino acid
CH_3	H	O	6-N-acetyl-2,8-difluoroadenine	OH	O-amino acid
CH_3	H	O	6-N-acetyl-2-aminoadenine	OH	O-amino acid
CH_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-amino acid
CH_3	H	O	2-N-acetylaminoadenine	OH	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluoroadenine	OH	O-amino acid
CH_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	O-amino acid
CH_3	H	O	2-N-acetylaminohypoxanthine	OH	OH
CH_3	O-amino acid	O	Thymine	F	OH
CH_3	O-amino acid	O	Uracil	F	OH
CH_3	O-amino acid	O	Guanine	F	OH
CH_3	O-amino acid	O	Cytosine	F	OH
CH_3	O-amino acid	O	Adenine	F	OH
CH_3	O-amino acid	O	Hypoxanthine	F	OH
CH_3	O-amino acid	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	O	Thymine	F	OH
CH_3	O-acyl	O	Uracil	F	OH
CH_3	O-acyl	O	Guanine	F	OH
CH_3	O-acyl	O	Cytosine	F	OH
CH_3	O-acyl	O	Adenine	F	OH
CH_3	O-acyl	O	Hypoxanthine	F	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	5-Fluorouracil	F	OH
CH_3	O-acyl	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	O	2-Aminoadenine	F	OH
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	O	Thymine	Br	OH
CH_3	O-amino acid	O	Uracil	Br	OH
CH_3	O-amino acid	O	Guanine	Br	OH
CH_3	O-amino acid	O	Cytosine	Br	OH
CH_3	O-amino acid	O	Adenine	Br	OH
CH_3	O-amino acid	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	O	4-N-acetylcytosine	Br	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	O	Thymine	Br	OH
CH_3	O-acyl	O	Uracil	Br	OH
CH_3	O-acyl	O	Guanine	Br	OH
CH_3	O-acyl	O	Cytosine	Br	OH
CH_3	O-acyl	O	Adenine	Br	OH
CH_3	O-acyl	O	Hypoxanthine	Br	OH
CH_3	O-acyl	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	O	Thymine	Cl	OH
CH_3	O-amino acid	O	Uracil	Cl	OH
CH_3	O-amino acid	O	Guanine	Cl	OH
CH_3	O-amino acid	O	Cytosine	Cl	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	Adenine	Cl	OH
CH_3	O-amino acid	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	O	Thymine	Cl	OH
CH_3	O-acyl	O	Uracil	Cl	OH
CH_3	O-acyl	O	Guanine	Cl	OH
CH_3	O-acyl	O	Cytosine	Cl	OH
CH_3	O-acyl	O	Adenine	Cl	OH
CH_3	O-acyl	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	O	2-Aminohypoxanthine	Cl	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	O	Thymine	H	OH
CH_3	O-amino acid	O	Uracil	H	OH
CH_3	O-amino acid	O	Guanine	H	OH
CH_3	O-amino acid	O	Cytosine	H	OH
CH_3	O-amino acid	O	Adenine	H	OH
CH_3	O-amino acid	O	Hypoxanthine	H	OH
CH_3	O-amino acid	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	O	Thymine	H	OH
CH_3	O-acyl	O	Uracil	H	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Guanine	H	OH
CH_3	O-acyl	O	Cytosine	H	OH
CH_3	O-acyl	O	Adenine	H	OH
CH_3	O-acyl	O	Hypoxanthine	H	OH
CH_3	O-acyl	O	5-Fluorouracil	H	OH
CH_3	O-acyl	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	O	2-Aminoadenine	H	OH
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	O	Thymine	O-amino acid	H
CH_3	O-amino acid	O	Uracil	O-amino acid	H
CH_3	O-amino acid	O	Guanine	O-amino acid	H
CH_3	O-amino acid	O	Cytosine	O-amino acid	H
CH_3	O-amino acid	O	Adenine	O-amino acid	H
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	Thymine	O-acyl	H
CH_3	O-acyl	O	Uracil	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Guanine	O-acyl	H
CH_3	O-acyl	O	Cytosine	O-acyl	H
CH_3	O-acyl	O	Adenine	O-acyl	H
CH_3	O-acyl	O	Hypoxanthine	O-acyl	H
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	Thymine	O-amino acid	H
CH_3	O-amino acid	O	Uracil	O-amino acid	H
CH_3	O-amino acid	O	Guanine	O-amino acid	H
CH_3	O-amino acid	O	Cytosine	O-amino acid	H
CH_3	O-amino acid	O	Adenine	O-amino acid	H
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	Thymine	O-acyl	H
CH_3	O-acyl	O	Uracil	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Guanine	O-acyl	H
CH_3	O-acyl	O	Cytosine	O-acyl	H
CH_3	O-acyl	O	Adenine	O-acyl	H
CH_3	O-acyl	O	Hypoxanthine	O-acyl	H
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	Thymine	O-amino acid	H
CH_3	O-amino acid	O	Uracil	O-amino acid	H
CH_3	O-amino acid	O	Guanine	O-amino acid	H
CH_3	O-amino acid	O	Cytosine	O-amino acid	H
CH_3	O-amino acid	O	Adenine	O-amino acid	H
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	Thymine	O-acyl	H
CH_3	O-acyl	O	Uracil	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Guanine	O-acyl	H
CH_3	O-acyl	O	Cytosine	O-acyl	H
CH_3	O-acyl	O	Adenine	O-acyl	H
CH_3	O-acyl	O	Hypoxanthine	O-acyl	H
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	Thymine	O-amino acid	H
CH_3	O-amino acid	O	Uracil	O-amino acid	H
CH_3	O-amino acid	O	Guanine	O-amino acid	H
CH_3	O-amino acid	O	Cytosine	O-amino acid	H
CH_3	O-amino acid	O	Adenine	O-amino acid	H
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	Thymine	O-acyl	H
CH_3	O-acyl	O	Uracil	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Guanine	O-acyl	H
CH_3	O-acyl	O	Cytosine	O-acyl	H
CH_3	O-acyl	O	Adenine	O-acyl	H
CH_3	O-acyl	O	Hypoxanthine	O-acyl	H
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	O	Thymine	O-amino acid	H
CH_3	O-amino acid	O	Uracil	O-amino acid	H
CH_3	O-amino acid	O	Guanine	O-amino acid	H
CH_3	O-amino acid	O	Cytosine	O-amino acid	H
CH_3	O-amino acid	O	Adenine	O-amino acid	H
CH_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	O	Thymine	O-acyl	H
CH_3	O-acyl	O	Uracil	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	O	Guanine	O-acyl	H
CH_3	O-acyl	O	Cytosine	O-acyl	H
CH_3	O-acyl	O	Adenine	O-acyl	H
CH_3	O-acyl	O	Hypoxanthine	O-acyl	H
CH_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	H	O	Thymine	F	O-acyl
CF_3	H	O	Uracil	F	O-acyl
CF_3	H	O	Guanine	F	O-acyl
CF_3	H	O	Cytosine	F	O-acyl
CF_3	H	O	Adenine	F	O-acyl
CF_3	H	O	Hypoxanthine	F	O-acyl
CF_3	H	O	5-Fluorouracil	F	O-acyl
CF_3	H	O	8-Fluoroguanine	F	O-acyl
CF_3	H	O	5-Fluorocytosine	F	O-acyl
CF_3	H	O	8-Fluoroadenine	F	O-acyl
CF_3	H	O	2-Fluoroadenine	F	O-acyl
CF_3	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	O	2-Aminoadenine	F	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	O	2-N-acetylguanine	F	O-acyl
CF_3	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	O	6-N-acetyladenine	F	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	Thymine	F	O-acyl
CF_3	O-amino acid	O	Uracil	F	O-acyl
CF_3	O-amino acid	O	Guanine	F	O-acyl
CF_3	O-amino acid	O	Cytosine	F	O-acyl
CF_3	O-amino acid	O	Adenine	F	O-acyl
CF_3	O-amino acid	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	Thymine	F	O-acyl
CF_3	O-acyl	O	Uracil	F	O-acyl
CF_3	O-acyl	O	Guanine	F	O-acyl
CF_3	O-acyl	O	Cytosine	F	O-acyl
CF_3	O-acyl	O	Adenine	F	O-acyl
CF_3	O-acyl	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	O	Thymine	F	O-acyl
CF_3	OH	O	Uracil	F	O-acyl
CF_3	OH	O	Guanine	F	O-acyl
CF_3	OH	O	Cytosine	F	O-acyl
CF_3	OH	O	Adenine	F	O-acyl
CF_3	OH	O	Hypoxanthine	F	O-acyl
CF_3	OH	O	5-Fluorouracil	F	O-acyl
CF_3	OH	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	O	2,8-Difluorohypoxanthine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	2-Aminoadenine	F	O-acyl
CF_3	OH	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	O	Thymine	Br	O-acyl
CF_3	H	O	Uracil	Br	O-acyl
CF_3	H	O	Guanine	Br	O-acyl
CF_3	H	O	Cytosine	Br	O-acyl
CF_3	H	O	Adenine	Br	O-acyl
CF_3	H	O	Hypoxanthine	Br	O-acyl
CF_3	H	O	5-Fluorouracil	Br	O-acyl
CF_3	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	O	2-Aminoadenine	Br	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	Thymine	Br	O-acyl
CF_3	O-amino acid	O	Uracil	Br	O-acyl
CF_3	O-amino acid	O	Guanine	Br	O-acyl
CF_3	O-amino acid	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	O	Adenine	Br	O-acyl
CF_3	O-amino acid	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	Thymine	Br	O-acyl
CF_3	O-acyl	O	Uracil	Br	O-acyl
CF_3	O-acyl	O	Guanine	Br	O-acyl
CF_3	O-acyl	O	Cytosine	Br	O-acyl
CF_3	O-acyl	O	Adenine	Br	O-acyl
CF_3	O-acyl	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	O	2-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	O	Thymine	Br	O-acyl
CF_3	OH	O	Uracil	Br	O-acyl
CF_3	OH	O	Guanine	Br	O-acyl
CF_3	OH	O	Cytosine	Br	O-acyl
CF_3	OH	O	Adenine	Br	O-acyl
CF_3	OH	O	Hypoxanthine	Br	O-acyl
CF_3	OH	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	O	Thymine	Cl	O-acyl
CF_3	O-acyl	O	Uracil	Cl	O-acyl
CF_3	O-acyl	O	Guanine	Cl	O-acyl
CF_3	O-acyl	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	O	Adenine	Cl	O-acyl
CF_3	O-acyl	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	O	Thymine	Cl	O-acyl
CF_3	OH	O	Uracil	Cl	O-acyl
CF_3	OH	O	Guanine	Cl	O-acyl
CF_3	OH	O	Cytosine	Cl	O-acyl
CF_3	OH	O	Adenine	Cl	O-acyl
CF_3	OH	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	O	2-Fluoroadenine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	O	Thymine	Cl	O-acyl
CF_3	H	O	Uracil	Cl	O-acyl
CF_3	H	O	Guanine	Cl	O-acyl
CF_3	H	O	Cytosine	Cl	O-acyl
CF_3	H	O	Adenine	Cl	O-acyl
CF_3	H	O	Hypoxanthine	Cl	O-acyl
CF_3	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	O	Thymine	H	O-acyl
CF_3	H	O	Uracil	H	O-acyl
CF_3	H	O	Guanine	H	O-acyl
CF_3	H	O	Cytosine	H	O-acyl
CF_3	H	O	Adenine	H	O-acyl
CF_3	H	O	Hypoxanthine	H	O-acyl
CF_3	H	O	5-Fluorouracil	H	O-acyl
CF_3	H	O	8-Fluoroguanine	H	O-acyl
CF_3	H	O	5-Fluorocytosine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	8-Fluoroadenine	H	O-acyl
CF_3	H	O	2-Fluoroadenine	H	O-acyl
CF_3	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	O	2-Aminoadenine	H	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	O	2-N-acetylguanine	H	O-acyl
CF_3	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	O	6-N-acetyladenine	H	O-acyl
CF_3	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	Thymine	H	O-acyl
CF_3	O-amino acid	O	Uracil	H	O-acyl
CF_3	O-amino acid	O	Guanine	H	O-acyl
CF_3	O-amino acid	O	Cytosine	H	O-acyl
CF_3	O-amino acid	O	Adenine	H	O-acyl
CF_3	O-amino acid	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	O	Thymine	H	O-acyl
CF_3	O-acyl	O	Uracil	H	O-acyl
CF_3	O-acyl	O	Guanine	H	O-acyl
CF_3	O-acyl	O	Cytosine	H	O-acyl
CF_3	O-acyl	O	Adenine	H	O-acyl
CF_3	O-acyl	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	O	Thymine	H	O-acyl
CF_3	OH	O	Uracil	H	O-acyl
CF_3	OH	O	Guanine	H	O-acyl
CF_3	OH	O	Cytosine	H	O-acyl
CF_3	OH	O	Adenine	H	O-acyl
CF_3	OH	O	Hypoxanthine	H	O-acyl
CF_3	OH	O	5-Fluorouracil	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	O	2-Aminoadenine	H	O-acyl
CF_3	OH	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	O	Thymine	OH	O-acyl
CF_3	H	O	Uracil	OH	O-acyl
CF_3	H	O	Guanine	OH	O-acyl
CF_3	H	O	Cytosine	OH	O-acyl
CF_3	H	O	Adenine	OH	O-acyl
CF_3	H	O	Hypoxanthine	OH	O-acyl
CF_3	H	O	5-Fluorouracil	OH	O-acyl
CF_3	H	O	8-Fluoroguanine	OH	O-acyl
CF_3	H	O	5-Fluorocytosine	OH	O-acyl
CF_3	H	O	8-Fluoroadenine	OH	O-acyl
CF_3	H	O	2-Fluoroadenine	OH	O-acyl
CF_3	H	O	2,8-Difluoroadenine	OH	O-acyl
CF_3	H	O	2-Fluorohypoxanthine	OH	O-acyl
CF_3	H	O	8-Fluorohypoxanthine	OH	O-acyl
CF_3	H	O	2,8-Difluorohypoxanthine	OH	O-acyl
CF_3	H	O	2-Aminoadenine	OH	O-acyl
CF_3	H	O	2-Amino-8-fluoroadenine	OH	O-acyl
CF_3	H	O	2-Amino-8-fluorohypoxanthine	OH	O-acyl
CF_3	H	O	2-Aminohypoxanthine	OH	O-acyl
CF_3	H	O	2-N-acetylguanine	OH	O-acyl
CF_3	H	O	4-N-acetylcytosine	OH	O-acyl
CF_3	H	O	6-N-acetyladenine	OH	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	2-N-acetyl-8-fluoroguanine	OH	O-acyl
CF_3	H	O	4-N-acetyl-5-fluorocytosine	OH	O-acyl
CF_3	H	O	6-N-acetyl-2-fluoroadenine	OH	O-acyl
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	OH	O-acyl
CF_3	H	O	6-N-acetyl-2-aminoadenine	OH	O-acyl
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-acyl
CF_3	H	O	2-N-acetylaminoadenine	OH	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	OH	O-acyl
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	O-acyl
CF_3	H	O	2-N-acetylaminohypoxanthine	OH	O-acyl
CF_3	H	O	Thymine	F	O-amino acid
CF_3	H	O	Uracil	F	O-amino acid
CF_3	H	O	Guanine	F	O-amino acid
CF_3	H	O	Cytosine	F	O-amino acid
CF_3	H	O	Adenine	F	O-amino acid
CF_3	H	O	Hypoxanthine	F	O-amino acid
CF_3	H	O	5-Fluorouracil	F	O-amino acid
CF_3	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	O	2-Aminoadenine	F	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	Thymine	F	O-amino acid
CF_3	O-amino acid	O	Uracil	F	O-amino acid
CF_3	O-amino acid	O	Guanine	F	O-amino acid
CF_3	O-amino acid	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	O	Adenine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	Thymine	F	O-amino acid
CF_3	O-acyl	O	Uracil	F	O-amino acid
CF_3	O-acyl	O	Guanine	F	O-amino acid
CF_3	O-acyl	O	Cytosine	F	O-amino acid
CF_3	O-acyl	O	Adenine	F	O-amino acid
CF_3	O-acyl	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	2-N-acetylguanine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	O	Thymine	F	O-amino acid
CF_3	OH	O	Uracil	F	O-amino acid
CF_3	OH	O	Guanine	F	O-amino acid
CF_3	OH	O	Cytosine	F	O-amino acid
CF_3	OH	O	Adenine	F	O-amino acid
CF_3	OH	O	Hypoxanthine	F	O-amino acid
CF_3	OH	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	O	Thymine	Br	O-amino acid
CF_3	H	O	Uracil	Br	O-amino acid
CF_3	H	O	Guanine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	Cytosine	Br	O-amino acid
CF_3	H	O	Adenine	Br	O-amino acid
CF_3	H	O	Hypoxanthine	Br	O-amino acid
CF_3	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	Thymine	Br	O-amino acid
CF_3	O-acyl	O	Uracil	Br	O-amino acid
CF_3	O-acyl	O	Guanine	Br	O-amino acid
CF_3	O-acyl	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	O	Adenine	Br	O-amino acid
CF_3	O-acyl	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	O	Thymine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	Uracil	Br	O-amino acid
CF_3	OH	O	Guanine	Br	O-amino acid
CF_3	OH	O	Cytosine	Br	O-amino acid
CF_3	OH	O	Adenine	Br	O-amino acid
CF_3	OH	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	O	Thymine	Cl	O-amino acid
CF_3	H	O	Uracil	Cl	O-amino acid
CF_3	H	O	Guanine	Cl	O-amino acid
CF_3	H	O	Cytosine	Cl	O-amino acid
CF_3	H	O	Adenine	Cl	O-amino acid
CF_3	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	O	2-Aminoadenine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	O	Thymine	Cl	O-amino acid
CF_3	OH	O	Uracil	Cl	O-amino acid
CF_3	OH	O	Guanine	Cl	O-amino acid
CF_3	OH	O	Cytosine	Cl	O-amino acid
CF_3	OH	O	Adenine	Cl	O-amino acid
CF_3	OH	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	O	8-Fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	O	Thymine	H	O-amino acid
CF_3	H	O	Uracil	H	O-amino acid
CF_3	H	O	Guanine	H	O-amino acid
CF_3	H	O	Cytosine	H	O-amino acid
CF_3	H	O	Adenine	H	O-amino acid
CF_3	H	O	Hypoxanthine	H	O-amino acid
CF_3	H	O	5-Fluorouracil	H	O-amino acid
CF_3	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	O	2-Aminoadenine	H	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	Thymine	H	O-amino acid
CF_3	O-amino acid	O	Uracil	H	O-amino acid
CF_3	O-amino acid	O	Guanine	H	O-amino acid
CF_3	O-amino acid	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	O	Adenine	H	O-amino acid
CF_3	O-amino acid	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	Thymine	H	O-amino acid
CF_3	O-acyl	O	Uracil	H	O-amino acid
CF_3	O-acyl	O	Guanine	H	O-amino acid
CF_3	O-acyl	O	Cytosine	H	O-amino acid
CF_3	O-acyl	O	Adenine	H	O-amino acid
CF_3	O-acyl	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	O	2,8-Difluoroadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	O	Thymine	H	O-amino acid
CF_3	OH	O	Uracil	H	O-amino acid
CF_3	OH	O	Guanine	H	O-amino acid
CF_3	OH	O	Cytosine	H	O-amino acid
CF_3	OH	O	Adenine	H	O-amino acid
CF_3	OH	O	Hypoxanthine	H	O-amino acid
CF_3	OH	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	O	6-N-acetyl-2-aminoadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	O	Thymine	OH	O-amino acid
CF_3	H	O	Uracil	OH	O-amino acid
CF_3	H	O	Guanine	OH	O-amino acid
CF_3	H	O	Cytosine	OH	O-amino acid
CF_3	H	O	Adenine	OH	O-amino acid
CF_3	H	O	Hypoxanthine	OH	O-amino acid
CF_3	H	O	5-Fluorouracil	OH	O-amino acid
CF_3	H	O	8-Fluoroguanine	OH	O-amino acid
CF_3	H	O	5-Fluorocytosine	OH	O-amino acid
CF_3	H	O	8-Fluoroadenine	OH	O-amino acid
CF_3	H	O	2-Fluoroadenine	OH	O-amino acid
CF_3	H	O	2,8-Difluoroadenine	OH	O-amino acid
CF_3	H	O	2-Fluorohypoxanthine	OH	O-amino acid
CF_3	H	O	8-Fluorohypoxanthine	OH	O-amino acid
CF_3	H	O	2,8-Difluorohypoxanthine	OH	O-amino acid
CF_3	H	O	2-Aminoadenine	OH	O-amino acid
CF_3	H	O	2-Amino-8-fluoroadenine	OH	O-amino acid
CF_3	H	O	2-Amino-8-fluorohypoxanthine	OH	O-amino acid
CF_3	H	O	2-Aminohypoxanthine	OH	O-amino acid
CF_3	H	O	2-N-acetylguanine	OH	O-amino acid
CF_3	H	O	4-N-acetylcytosine	OH	O-amino acid
CF_3	H	O	6-N-acetyladenine	OH	O-amino acid
CF_3	H	O	2-N-acetyl-8-fluoroguanine	OH	O-amino acid
CF_3	H	O	4-N-acetyl-5-fluorocytosine	OH	O-amino acid
CF_3	H	O	6-N-acetyl-2-fluoroadenine	OH	O-amino acid
CF_3	H	O	6-N-acetyl-2,8-difluoroadenine	OH	O-amino acid
CF_3	H	O	6-N-acetyl-2-aminoadenine	OH	O-amino acid
CF_3	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-amino acid
CF_3	H	O	2-N-acetylaminoadenine	OH	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluoroadenine	OH	O-amino acid
CF_3	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	O-amino acid
CF_3	H	O	2-N-acetylaminohypoxanthine	OH	OH
CF_3	O-amino acid	O	Thymine	F	OH
CF_3	O-amino acid	O	Uracil	F	OH
CF_3	O-amino acid	O	Guanine	F	OH
CF_3	O-amino acid	O	Cytosine	F	OH
CF_3	O-amino acid	O	Adenine	F	OH
CF_3	O-amino acid	O	Hypoxanthine	F	OH
CF_3	O-amino acid	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	O	8-Fluoroadenine	F	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	O	Thymine	F	OH
CF_3	O-acyl	O	Uracil	F	OH
CF_3	O-acyl	O	Guanine	F	OH
CF_3	O-acyl	O	Cytosine	F	OH
CF_3	O-acyl	O	Adenine	F	OH
CF_3	O-acyl	O	Hypoxanthine	F	OH
CF_3	O-acyl	O	5-Fluorouracil	F	OH
CF_3	O-acyl	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	O	2-Aminoadenine	F	OH
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	F	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	O	Thymine	Br	OH
CF_3	O-amino acid	O	Uracil	Br	OH
CF_3	O-amino acid	O	Guanine	Br	OH
CF_3	O-amino acid	O	Cytosine	Br	OH
CF_3	O-amino acid	O	Adenine	Br	OH
CF_3	O-amino acid	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	O	Thymine	Br	OH
CF_3	O-acyl	O	Uracil	Br	OH
CF_3	O-acyl	O	Guanine	Br	OH
CF_3	O-acyl	O	Cytosine	Br	OH
CF_3	O-acyl	O	Adenine	Br	OH
CF_3	O-acyl	O	Hypoxanthine	Br	OH
CF_3	O-acyl	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	O	8-Fluoroguanine	Br	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	O	Thymine	Cl	OH
CF_3	O-amino acid	O	Uracil	Cl	OH
CF_3	O-amino acid	O	Guanine	Cl	OH
CF_3	O-amino acid	O	Cytosine	Cl	OH
CF_3	O-amino acid	O	Adenine	Cl	OH
CF_3	O-amino acid	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	Cl	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	O	Thymine	Cl	OH
CF_3	O-acyl	O	Uracil	Cl	OH
CF_3	O-acyl	O	Guanine	Cl	OH
CF_3	O-acyl	O	Cytosine	Cl	OH
CF_3	O-acyl	O	Adenine	Cl	OH
CF_3	O-acyl	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	O	Thymine	H	OH
CF_3	O-amino acid	O	Uracil	H	OH
CF_3	O-amino acid	O	Guanine	H	OH
CF_3	O-amino acid	O	Cytosine	H	OH
CF_3	O-amino acid	O	Adenine	H	OH
CF_3	O-amino acid	O	Hypoxanthine	H	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	O	Thymine	H	OH
CF_3	O-acyl	O	Uracil	H	OH
CF_3	O-acyl	O	Guanine	H	OH
CF_3	O-acyl	O	Cytosine	H	OH
CF_3	O-acyl	O	Adenine	H	OH
CF_3	O-acyl	O	Hypoxanthine	H	OH
CF_3	O-acyl	O	5-Fluorouracil	H	OH
CF_3	O-acyl	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	O	2-Aminoadenine	H	OH
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	O	4-N-acetylcytosine	H	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	O	Thymine	O-amino acid	H
CF_3	O-amino acid	O	Uracil	O-amino acid	H
CF_3	O-amino acid	O	Guanine	O-amino acid	H
CF_3	O-amino acid	O	Cytosine	O-amino acid	H
CF_3	O-amino acid	O	Adenine	O-amino acid	H
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	Thymine	O-acyl	H
CF_3	O-acyl	O	Uracil	O-acyl	H
CF_3	O-acyl	O	Guanine	O-acyl	H
CF_3	O-acyl	O	Cytosine	O-acyl	H
CF_3	O-acyl	O	Adenine	O-acyl	H
CF_3	O-acyl	O	Hypoxanthine	O-acyl	H
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	Thymine	O-amino acid	H
CF_3	O-amino acid	O	Uracil	O-amino acid	H
CF_3	O-amino acid	O	Guanine	O-amino acid	H
CF_3	O-amino acid	O	Cytosine	O-amino acid	H
CF_3	O-amino acid	O	Adenine	O-amino acid	H
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	Thymine	O-acyl	H
CF_3	O-acyl	O	Uracil	O-acyl	H
CF_3	O-acyl	O	Guanine	O-acyl	H
CF_3	O-acyl	O	Cytosine	O-acyl	H
CF_3	O-acyl	O	Adenine	O-acyl	H
CF_3	O-acyl	O	Hypoxanthine	O-acyl	H
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	Thymine	O-amino acid	H
CF_3	O-amino acid	O	Uracil	O-amino acid	H
CF_3	O-amino acid	O	Guanine	O-amino acid	H
CF_3	O-amino acid	O	Cytosine	O-amino acid	H
CF_3	O-amino acid	O	Adenine	O-amino acid	H
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	Thymine	O-acyl	H
CF_3	O-acyl	O	Uracil	O-acyl	H
CF_3	O-acyl	O	Guanine	O-acyl	H
CF_3	O-acyl	O	Cytosine	O-acyl	H
CF_3	O-acyl	O	Adenine	O-acyl	H
CF_3	O-acyl	O	Hypoxanthine	O-acyl	H
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	Thymine	O-amino acid	H
CF_3	O-amino acid	O	Uracil	O-amino acid	H
CF_3	O-amino acid	O	Guanine	O-amino acid	H
CF_3	O-amino acid	O	Cytosine	O-amino acid	H
CF_3	O-amino acid	O	Adenine	O-amino acid	H
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	Thymine	O-acyl	H
CF_3	O-acyl	O	Uracil	O-acyl	H
CF_3	O-acyl	O	Guanine	O-acyl	H
CF_3	O-acyl	O	Cytosine	O-acyl	H
CF_3	O-acyl	O	Adenine	O-acyl	H
CF_3	O-acyl	O	Hypoxanthine	O-acyl	H
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	O	Thymine	O-amino acid	H
CF_3	O-amino acid	O	Uracil	O-amino acid	H
CF_3	O-amino acid	O	Guanine	O-amino acid	H
CF_3	O-amino acid	O	Cytosine	O-amino acid	H
CF_3	O-amino acid	O	Adenine	O-amino acid	H
CF_3	O-amino acid	O	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-Aminohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CF_3	O-amino acid	O	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	O	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	O	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	O	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	O	Thymine	O-acyl	H
CF_3	O-acyl	O	Uracil	O-acyl	H
CF_3	O-acyl	O	Guanine	O-acyl	H
CF_3	O-acyl	O	Cytosine	O-acyl	H
CF_3	O-acyl	O	Adenine	O-acyl	H
CF_3	O-acyl	O	Hypoxanthine	O-acyl	H
CF_3	O-acyl	O	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	O	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	O	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	O	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetylcytosine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	O	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	O	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	O	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	O	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	H	S	Thymine	F	O-acyl
CF_3	H	S	Uracil	F	O-acyl
CF_3	H	S	Guanine	F	O-acyl
CF_3	H	S	Cytosine	F	O-acyl
CF_3	H	S	Adenine	F	O-acyl
CF_3	H	S	Hypoxanthine	F	O-acyl
CF_3	H	S	5-Fluorouracil	F	O-acyl
CF_3	H	S	8-Fluoroguanine	F	O-acyl
CF_3	H	S	5-Fluorocytosine	F	O-acyl
CF_3	H	S	8-Fluoroadenine	F	O-acyl
CF_3	H	S	2-Fluoroadenine	F	O-acyl
CF_3	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	S	2-Aminoadenine	F	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	S	2-N-acetylguanine	F	O-acyl
CF_3	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	S	6-N-acetyladenine	F	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	Thymine	F	O-acyl
CF_3	O-amino acid	S	Uracil	F	O-acyl
CF_3	O-amino acid	S	Guanine	F	O-acyl
CF_3	O-amino acid	S	Cytosine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Adenine	F	O-acyl
CF_3	O-amino acid	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	S	Thymine	F	O-acyl
CF_3	O-acyl	S	Uracil	F	O-acyl
CF_3	O-acyl	S	Guanine	F	O-acyl
CF_3	O-acyl	S	Cytosine	F	O-acyl
CF_3	O-acyl	S	Adenine	F	O-acyl
CF_3	O-acyl	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	S	2-Aminohypoxanthine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	S	Thymine	F	O-acyl
CF_3	OH	S	Uracil	F	O-acyl
CF_3	OH	S	Guanine	F	O-acyl
CF_3	OH	S	Cytosine	F	O-acyl
CF_3	OH	S	Adenine	F	O-acyl
CF_3	OH	S	Hypoxanthine	F	O-acyl
CF_3	OH	S	5-Fluorouracil	F	O-acyl
CF_3	OH	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	S	2-Aminoadenine	F	O-acyl
CF_3	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	S	Thymine	Br	O-acyl
CF_3	H	S	Uracil	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	S	Guanine	Br	O-acyl
CF_3	H	S	Cytosine	Br	O-acyl
CF_3	H	S	Adenine	Br	O-acyl
CF_3	H	S	Hypoxanthine	Br	O-acyl
CF_3	H	S	5-Fluorouracil	Br	O-acyl
CF_3	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	S	2-Aminoadenine	Br	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	Thymine	Br	O-acyl
CF_3	O-amino acid	S	Uracil	Br	O-acyl
CF_3	O-amino acid	S	Guanine	Br	O-acyl
CF_3	O-amino acid	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	S	Adenine	Br	O-acyl
CF_3	O-amino acid	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	Thymine	Br	O-acyl
CF_3	O-acyl	S	Uracil	Br	O-acyl
CF_3	O-acyl	S	Guanine	Br	O-acyl
CF_3	O-acyl	S	Cytosine	Br	O-acyl
CF_3	O-acyl	S	Adenine	Br	O-acyl
CF_3	O-acyl	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	S	Thymine	Br	O-acyl
CF_3	OH	S	Uracil	Br	O-acyl
CF_3	OH	S	Guanine	Br	O-acyl
CF_3	OH	S	Cytosine	Br	O-acyl
CF_3	OH	S	Adenine	Br	O-acyl
CF_3	OH	S	Hypoxanthine	Br	O-acyl
CF_3	OH	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	S	Thymine	Cl	O-acyl
CF_3	O-acyl	S	Uracil	Cl	O-acyl
CF_3	O-acyl	S	Guanine	Cl	O-acyl
CF_3	O-acyl	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	S	Adenine	Cl	O-acyl
CF_3	O-acyl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	S	Thymine	Cl	O-acyl
CF_3	OH	S	Uracil	Cl	O-acyl
CF_3	OH	S	Guanine	Cl	O-acyl
CF_3	OH	S	Cytosine	Cl	O-acyl
CF_3	OH	S	Adenine	Cl	O-acyl
CF_3	OH	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	S	Thymine	Cl	O-acyl
CF_3	H	S	Uracil	Cl	O-acyl
CF_3	H	S	Guanine	Cl	O-acyl
CF_3	H	S	Cytosine	Cl	O-acyl
CF_3	H	S	Adenine	Cl	O-acyl
CF_3	H	S	Hypoxanthine	Cl	O-acyl
CF_3	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	S	Thymine	H	O-acyl
CF_3	H	S	Uracil	H	O-acyl
CF_3	H	S	Guanine	H	O-acyl
CF_3	H	S	Cytosine	H	O-acyl
CF_3	H	S	Adenine	H	O-acyl
CF_3	H	S	Hypoxanthine	H	O-acyl
CF_3	H	S	5-Fluorouracil	H	O-acyl
CF_3	H	S	8-Fluoroguanine	H	O-acyl
CF_3	H	S	5-Fluorocytosine	H	O-acyl
CF_3	H	S	8-Fluoroadenine	H	O-acyl
CF_3	H	S	2-Fluoroadenine	H	O-acyl
CF_3	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	S	2-Aminoadenine	H	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	S	2-N-acetylguanine	H	O-acyl
CF_3	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	S	6-N-acetyladenine	H	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	Thymine	H	O-acyl
CF_3	O-amino acid	S	Uracil	H	O-acyl
CF_3	O-amino acid	S	Guanine	H	O-acyl
CF_3	O-amino acid	S	Cytosine	H	O-acyl
CF_3	O-amino acid	S	Adenine	H	O-acyl
CF_3	O-amino acid	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	S	Thymine	H	O-acyl
CF_3	O-acyl	S	Uracil	H	O-acyl
CF_3	O-acyl	S	Guanine	H	O-acyl
CF_3	O-acyl	S	Cytosine	H	O-acyl
CF_3	O-acyl	S	Adenine	H	O-acyl
CF_3	O-acyl	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	S	2-Fluoroadenine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	S	Thymine	H	O-acyl
CF_3	OH	S	Uracil	H	O-acyl
CF_3	OH	S	Guanine	H	O-acyl
CF_3	OH	S	Cytosine	H	O-acyl
CF_3	OH	S	Adenine	H	O-acyl
CF_3	OH	S	Hypoxanthine	H	O-acyl
CF_3	OH	S	5-Fluorouracil	H	O-acyl
CF_3	OH	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	S	2-Aminoadenine	H	O-acyl
CF_3	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	S	Thymine	OH	O-acyl
CF_3	H	S	Uracil	OH	O-acyl
CF_3	H	S	Guanine	OH	O-acyl
CF_3	H	S	Cytosine	OH	O-acyl
CF_3	H	S	Adenine	OH	O-acyl
CF_3	H	S	Hypoxanthine	OH	O-acyl
CF_3	H	S	5-Fluorouracil	OH	O-acyl
CF_3	H	S	8-Fluoroguanine	OH	O-acyl
CF_3	H	S	5-Fluorocytosine	OH	O-acyl
CF_3	H	S	8-Fluoroadenine	OH	O-acyl
CF_3	H	S	2-Fluoroadenine	OH	O-acyl
CF_3	H	S	2,8-Difluoroadenine	OH	O-acyl
CF_3	H	S	2-Fluorohypoxanthine	OH	O-acyl
CF_3	H	S	8-Fluorohypoxanthine	OH	O-acyl
CF_3	H	S	2,8-Difluorohypoxanthine	OH	O-acyl
CF_3	H	S	2-Aminoadenine	OH	O-acyl
CF_3	H	S	2-Amino-8-fluoroadenine	OH	O-acyl
CF_3	H	S	2-Amino-8-fluorohypoxanthine	OH	O-acyl
CF_3	H	S	2-Aminohypoxanthine	OH	O-acyl
CF_3	H	S	2-N-acetylguanine	OH	O-acyl
CF_3	H	S	4-N-acetylcytosine	OH	O-acyl
CF_3	H	S	6-N-acetyladenine	OH	O-acyl
CF_3	H	S	2-N-acetyl-8-fluoroguanine	OH	O-acyl
CF_3	H	S	4-N-acetyl-5-fluorocytosine	OH	O-acyl
CF_3	H	S	6-N-acetyl-2-fluoroadenine	OH	O-acyl
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	OH	O-acyl
CF_3	H	S	6-N-acetyl-2-aminoadenine	OH	O-acyl
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-acyl
CF_3	H	S	2-N-acetylaminoadenine	OH	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	OH	O-acyl
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	O-acyl
CF_3	H	S	2-N-acetylaminohypoxanthine	OH	O-acyl
CF_3	H	S	Thymine	F	O-amino acid
CF_3	H	S	Uracil	F	O-amino acid
CF_3	H	S	Guanine	F	O-amino acid
CF_3	H	S	Cytosine	F	O-amino acid
CF_3	H	S	Adenine	F	O-amino acid
CF_3	H	S	Hypoxanthine	F	O-amino acid
CF_3	H	S	5-Fluorouracil	F	O-amino acid
CF_3	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	S	5-Fluorocytosine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	S	2-Aminoadenine	F	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	Thymine	F	O-amino acid
CF_3	O-amino acid	S	Uracil	F	O-amino acid
CF_3	O-amino acid	S	Guanine	F	O-amino acid
CF_3	O-amino acid	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	S	Adenine	F	O-amino acid
CF_3	O-amino acid	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	Thymine	F	O-amino acid
CF_3	O-acyl	S	Uracil	F	O-amino acid
CF_3	O-acyl	S	Guanine	F	O-amino acid
CF_3	O-acyl	S	Cytosine	F	O-amino acid
CF_3	O-acyl	S	Adenine	F	O-amino acid
CF_3	O-acyl	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	S	Thymine	F	O-amino acid
CF_3	OH	S	Uracil	F	O-amino acid
CF_3	OH	S	Guanine	F	O-amino acid
CF_3	OH	S	Cytosine	F	O-amino acid
CF_3	OH	S	Adenine	F	O-amino acid
CF_3	OH	S	Hypoxanthine	F	O-amino acid
CF_3	OH	S	5-Fluorouracil	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	S	Thymine	Br	O-amino acid
CF_3	H	S	Uracil	Br	O-amino acid
CF_3	H	S	Guanine	Br	O-amino acid
CF_3	H	S	Cytosine	Br	O-amino acid
CF_3	H	S	Adenine	Br	O-amino acid
CF_3	H	S	Hypoxanthine	Br	O-amino acid
CF_3	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	S	6-N-acetyladenine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	Thymine	Br	O-amino acid
CF_3	O-acyl	S	Uracil	Br	O-amino acid
CF_3	O-acyl	S	Guanine	Br	O-amino acid
CF_3	O-acyl	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	S	Adenine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	S	Thymine	Br	O-amino acid
CF_3	OH	S	Uracil	Br	O-amino acid
CF_3	OH	S	Guanine	Br	O-amino acid
CF_3	OH	S	Cytosine	Br	O-amino acid
CF_3	OH	S	Adenine	Br	O-amino acid
CF_3	OH	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	S	2-N-acetylguanine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	OH	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	S	Thymine	Cl	O-amino acid
CF_3	H	S	Uracil	Cl	O-amino acid
CF_3	H	S	Guanine	Cl	O-amino acid
CF_3	H	S	Cytosine	Cl	O-amino acid
CF_3	H	S	Adenine	Cl	O-amino acid
CF_3	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	S	Guanine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	S	Thymine	Cl	O-amino acid
CF_3	OH	S	Uracil	Cl	O-amino acid
CF_3	OH	S	Guanine	Cl	O-amino acid
CF_3	OH	S	Cytosine	Cl	O-amino acid
CF_3	OH	S	Adenine	Cl	O-amino acid
CF_3	OH	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	S	Thymine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	S	Uracil	H	O-amino acid
CF_3	H	S	Guanine	H	O-amino acid
CF_3	H	S	Cytosine	H	O-amino acid
CF_3	H	S	Adenine	H	O-amino acid
CF_3	H	S	Hypoxanthine	H	O-amino acid
CF_3	H	S	5-Fluorouracil	H	O-amino acid
CF_3	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	S	2-Aminoadenine	H	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	Thymine	H	O-amino acid
CF_3	O-amino acid	S	Uracil	H	O-amino acid
CF_3	O-amino acid	S	Guanine	H	O-amino acid
CF_3	O-amino acid	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	S	Adenine	H	O-amino acid
CF_3	O-amino acid	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	2-Aminoadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	S	Thymine	H	O-amino acid
CF_3	O-acyl	S	Uracil	H	O-amino acid
CF_3	O-acyl	S	Guanine	H	O-amino acid
CF_3	O-acyl	S	Cytosine	H	O-amino acid
CF_3	O-acyl	S	Adenine	H	O-amino acid
CF_3	O-acyl	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	S	Thymine	H	O-amino acid
CF_3	OH	S	Uracil	H	O-amino acid
CF_3	OH	S	Guanine	H	O-amino acid
CF_3	OH	S	Cytosine	H	O-amino acid
CF_3	OH	S	Adenine	H	O-amino acid
CF_3	OH	S	Hypoxanthine	H	O-amino acid
CF_3	OH	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	S	Thymine	OH	O-amino acid
CF_3	H	S	Uracil	OH	O-amino acid
CF_3	H	S	Guanine	OH	O-amino acid
CF_3	H	S	Cytosine	OH	O-amino acid
CF_3	H	S	Adenine	OH	O-amino acid
CF_3	H	S	Hypoxanthine	OH	O-amino acid
CF_3	H	S	5-Fluorouracil	OH	O-amino acid
CF_3	H	S	8-Fluoroguanine	OH	O-amino acid
CF_3	H	S	5-Fluorocytosine	OH	O-amino acid
CF_3	H	S	8-Fluoroadenine	OH	O-amino acid
CF_3	H	S	2-Fluoroadenine	OH	O-amino acid
CF_3	H	S	2,8-Difluoroadenine	OH	O-amino acid
CF_3	H	S	2-Fluorohypoxanthine	OH	O-amino acid
CF_3	H	S	8-Fluorohypoxanthine	OH	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CF_3	H	S	2,8-Difluorohypoxanthine	OH	O-amino acid
CF_3	H	S	2-Aminoadenine	OH	O-amino acid
CF_3	H	S	2-Amino-8-fluoroadenine	OH	O-amino acid
CF_3	H	S	2-Amino-8-fluorohypoxanthine	OH	O-amino acid
CF_3	H	S	2-Aminohypoxanthine	OH	O-amino acid
CF_3	H	S	2-N-acetylguanine	OH	O-amino acid
CF_3	H	S	4-N-acetylcytosine	OH	O-amino acid
CF_3	H	S	6-N-acetyladenine	OH	O-amino acid
CF_3	H	S	2-N-acetyl-8-fluoroguanine	OH	O-amino acid
CF_3	H	S	4-N-acetyl-5-fluorocytosine	OH	O-amino acid
CF_3	H	S	6-N-acetyl-2-fluoroadenine	OH	O-amino acid
CF_3	H	S	6-N-acetyl-2,8-difluoroadenine	OH	O-amino acid
CF_3	H	S	6-N-acetyl-2-aminoadenine	OH	O-amino acid
CF_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-amino acid
CF_3	H	S	2-N-acetylaminoadenine	OH	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluoroadenine	OH	O-amino acid
CF_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	O-amino acid
CF_3	H	S	2-N-acetylaminohypoxanthine	OH	OH
CF_3	O-amino acid	S	Thymine	F	OH
CF_3	O-amino acid	S	Uracil	F	OH
CF_3	O-amino acid	S	Guanine	F	OH
CF_3	O-amino acid	S	Cytosine	F	OH
CF_3	O-amino acid	S	Adenine	F	OH
CF_3	O-amino acid	S	Hypoxanthine	F	OH
CF_3	O-amino acid	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	S	2-N-acetylaminoadenine	F	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	S	Thymine	F	OH
CF_3	O-acyl	S	Uracil	F	OH
CF_3	O-acyl	S	Guanine	F	OH
CF_3	O-acyl	S	Cytosine	F	OH
CF_3	O-acyl	S	Adenine	F	OH
CF_3	O-acyl	S	Hypoxanthine	F	OH
CF_3	O-acyl	S	5-Fluorouracil	F	OH
CF_3	O-acyl	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	S	2-Aminoadenine	F	OH
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	S	Thymine	Br	OH
CF_3	O-amino acid	S	Uracil	Br	OH
CF_3	O-amino acid	S	Guanine	Br	OH
CF_3	O-amino acid	S	Cytosine	Br	OH
CF_3	O-amino acid	S	Adenine	Br	OH
CF_3	O-amino acid	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	S	2,8-Difluoroadenine	Br	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	S	Thymine	Br	OH
CF_3	O-acyl	S	Uracil	Br	OH
CF_3	O-acyl	S	Guanine	Br	OH
CF_3	O-acyl	S	Cytosine	Br	OH
CF_3	O-acyl	S	Adenine	Br	OH
CF_3	O-acyl	S	Hypoxanthine	Br	OH
CF_3	O-acyl	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Br	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	S	Thymine	Cl	OH
CF_3	O-amino acid	S	Uracil	Cl	OH
CF_3	O-amino acid	S	Guanine	Cl	OH
CF_3	O-amino acid	S	Cytosine	Cl	OH
CF_3	O-amino acid	S	Adenine	Cl	OH
CF_3	O-amino acid	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	S	Thymine	Cl	OH
CF_3	O-acyl	S	Uracil	Cl	OH
CF_3	O-acyl	S	Guanine	Cl	OH
CF_3	O-acyl	S	Cytosine	Cl	OH
CF_3	O-acyl	S	Adenine	Cl	OH
CF_3	O-acyl	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	S	8-Fluoroadenine	Cl	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-acyl	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	S	Thymine	H	OH
CF_3	O-amino acid	S	Uracil	H	OH
CF_3	O-amino acid	S	Guanine	H	OH
CF_3	O-amino acid	S	Cytosine	H	OH
CF_3	O-amino acid	S	Adenine	H	OH
CF_3	O-amino acid	S	Hypoxanthine	H	OH
CF_3	O-amino acid	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	OH

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	S	Thymine	H	OH
CF_3	O-acyl	S	Uracil	H	OH
CF_3	O-acyl	S	Guanine	H	OH
CF_3	O-acyl	S	Cytosine	H	OH
CF_3	O-acyl	S	Adenine	H	OH
CF_3	O-acyl	S	Hypoxanthine	H	OH
CF_3	O-acyl	S	5-Fluorouracil	H	OH
CF_3	O-acyl	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	S	2-Aminoadenine	H	OH
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	S	Thymine	O-amino acid	H
CF_3	O-amino acid	S	Uracil	O-amino acid	H
CF_3	O-amino acid	S	Guanine	O-amino acid	H
CF_3	O-amino acid	S	Cytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Adenine	O-amino acid	H
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	Thymine	O-acyl	H
CF_3	O-acyl	S	Uracil	O-acyl	H
CF_3	O-acyl	S	Guanine	O-acyl	H
CF_3	O-acyl	S	Cytosine	O-acyl	H
CF_3	O-acyl	S	Adenine	O-acyl	H
CF_3	O-acyl	S	Hypoxanthine	O-acyl	H
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	Thymine	O-amino acid	H
CF_3	O-amino acid	S	Uracil	O-amino acid	H
CF_3	O-amino acid	S	Guanine	O-amino acid	H
CF_3	O-amino acid	S	Cytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Adenine	O-amino acid	H
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	Thymine	O-acyl	H
CF_3	O-acyl	S	Uracil	O-acyl	H
CF_3	O-acyl	S	Guanine	O-acyl	H
CF_3	O-acyl	S	Cytosine	O-acyl	H
CF_3	O-acyl	S	Adenine	O-acyl	H
CF_3	O-acyl	S	Hypoxanthine	O-acyl	H
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	Thymine	O-amino acid	H
CF_3	O-amino acid	S	Uracil	O-amino acid	H
CF_3	O-amino acid	S	Guanine	O-amino acid	H
CF_3	O-amino acid	S	Cytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Adenine	O-amino acid	H
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	Thymine	O-acyl	H
CF_3	O-acyl	S	Uracil	O-acyl	H
CF_3	O-acyl	S	Guanine	O-acyl	H
CF_3	O-acyl	S	Cytosine	O-acyl	H
CF_3	O-acyl	S	Adenine	O-acyl	H
CF_3	O-acyl	S	Hypoxanthine	O-acyl	H
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	Thymine	O-amino acid	H
CF_3	O-amino acid	S	Uracil	O-amino acid	H
CF_3	O-amino acid	S	Guanine	O-amino acid	H
CF_3	O-amino acid	S	Cytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Adenine	O-amino acid	H
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	Thymine	O-acyl	H
CF_3	O-acyl	S	Uracil	O-acyl	H
CF_3	O-acyl	S	Guanine	O-acyl	H
CF_3	O-acyl	S	Cytosine	O-acyl	H
CF_3	O-acyl	S	Adenine	O-acyl	H
CF_3	O-acyl	S	Hypoxanthine	O-acyl	H
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CF_3	O-amino acid	S	Thymine	O-amino acid	H
CF_3	O-amino acid	S	Uracil	O-amino acid	H
CF_3	O-amino acid	S	Guanine	O-amino acid	H
CF_3	O-amino acid	S	Cytosine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	Adenine	O-amino acid	H
CF_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CF_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CF_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H

R^6	R^7	X	Base	R^8	R^9
CF_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CF_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CF_3	O-acyl	S	Thymine	O-acyl	H
CF_3	O-acyl	S	Uracil	O-acyl	H
CF_3	O-acyl	S	Guanine	O-acyl	H
CF_3	O-acyl	S	Cytosine	O-acyl	H
CF_3	O-acyl	S	Adenine	O-acyl	H
CF_3	O-acyl	S	Hypoxanthine	O-acyl	H
CF_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CF_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CF_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CF_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CF_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CF_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CF_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	H	S	Thymine	F	O-acyl
CH_3	H	S	Uracil	F	O-acyl
CH_3	H	S	Guanine	F	O-acyl
CH_3	H	S	Cytosine	F	O-acyl
CH_3	H	S	Adenine	F	O-acyl
CH_3	H	S	Hypoxanthine	F	O-acyl
CH_3	H	S	5-Fluorouracil	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	8-Fluoroguanine	F	O-acyl
CH_3	H	S	5-Fluorocytosine	F	O-acyl
CH_3	H	S	8-Fluoroadenine	F	O-acyl
CH_3	H	S	2-Fluoroadenine	F	O-acyl
CH_3	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	S	2-Aminoadenine	F	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	S	2-N-acetylguanine	F	O-acyl
CH_3	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	S	6-N-acetyladenine	F	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	Thymine	F	O-acyl
CH_3	O-amino acid	S	Uracil	F	O-acyl
CH_3	O-amino acid	S	Guanine	F	O-acyl
CH_3	O-amino acid	S	Cytosine	F	O-acyl
CH_3	O-amino acid	S	Adenine	F	O-acyl
CH_3	O-amino acid	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	S	6-N-acetyladenine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	S	Thymine	F	O-acyl
CH_3	O-acyl	S	Uracil	F	O-acyl
CH_3	O-acyl	S	Guanine	F	O-acyl
CH_3	O-acyl	S	Cytosine	F	O-acyl
CH_3	O-acyl	S	Adenine	F	O-acyl
CH_3	O-acyl	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	S	Thymine	F	O-acyl
CH_3	OH	S	Uracil	F	O-acyl
CH_3	OH	S	Guanine	F	O-acyl
CH_3	OH	S	Cytosine	F	O-acyl
CH_3	OH	S	Adenine	F	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	S	Hypoxanthine	F	O-acyl
CH_3	OH	S	5-Fluorouracil	F	O-acyl
CH_3	OH	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	S	2-Aminoadenine	F	O-acyl
CH_3	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	S	Thymine	Br	O-acyl
CH_3	H	S	Uracil	Br	O-acyl
CH_3	H	S	Guanine	Br	O-acyl
CH_3	H	S	Cytosine	Br	O-acyl
CH_3	H	S	Adenine	Br	O-acyl
CH_3	H	S	Hypoxanthine	Br	O-acyl
CH_3	H	S	5-Fluorouracil	Br	O-acyl
CH_3	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	S	2-Aminoadenine	Br	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	S	2-N-acetylguanine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	Thymine	Br	O-acyl
CH_3	O-amino acid	S	Uracil	Br	O-acyl
CH_3	O-amino acid	S	Guanine	Br	O-acyl
CH_3	O-amino acid	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	S	Adenine	Br	O-acyl
CH_3	O-amino acid	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	Thymine	Br	O-acyl
CH_3	O-acyl	S	Uracil	Br	O-acyl
CH_3	O-acyl	S	Guanine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	Cytosine	Br	O-acyl
CH_3	O-acyl	S	Adenine	Br	O-acyl
CH_3	O-acyl	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	S	Thymine	Br	O-acyl
CH_3	OH	S	Uracil	Br	O-acyl
CH_3	OH	S	Guanine	Br	O-acyl
CH_3	OH	S	Cytosine	Br	O-acyl
CH_3	OH	S	Adenine	Br	O-acyl
CH_3	OH	S	Hypoxanthine	Br	O-acyl
CH_3	OH	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	S	Thymine	Cl	O-acyl
CH_3	O-acyl	S	Uracil	Cl	O-acyl
CH_3	O-acyl	S	Guanine	Cl	O-acyl
CH_3	O-acyl	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	S	Adenine	Cl	O-acyl
CH_3	O-acyl	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	S	Thymine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	S	Uracil	Cl	O-acyl
CH_3	OH	S	Guanine	Cl	O-acyl
CH_3	OH	S	Cytosine	Cl	O-acyl
CH_3	OH	S	Adenine	Cl	O-acyl
CH_3	OH	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	S	Thymine	Cl	O-acyl
CH_3	H	S	Uracil	Cl	O-acyl
CH_3	H	S	Guanine	Cl	O-acyl
CH_3	H	S	Cytosine	Cl	O-acyl
CH_3	H	S	Adenine	Cl	O-acyl
CH_3	H	S	Hypoxanthine	Cl	O-acyl
CH_3	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	S	2-Aminoadenine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	S	Thymine	H	O-acyl
CH_3	H	S	Uracil	H	O-acyl
CH_3	H	S	Guanine	H	O-acyl
CH_3	H	S	Cytosine	H	O-acyl
CH_3	H	S	Adenine	H	O-acyl
CH_3	H	S	Hypoxanthine	H	O-acyl
CH_3	H	S	5-Fluorouracil	H	O-acyl
CH_3	H	S	8-Fluoroguanine	H	O-acyl
CH_3	H	S	5-Fluorocytosine	H	O-acyl
CH_3	H	S	8-Fluoroadenine	H	O-acyl
CH_3	H	S	2-Fluoroadenine	H	O-acyl
CH_3	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	S	2-Aminoadenine	H	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	S	2-N-acetylguanine	H	O-acyl
CH_3	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	S	6-N-acetyladenine	H	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	S	Thymine	H	O-acyl
CH_3	O-amino acid	S	Uracil	H	O-acyl
CH_3	O-amino acid	S	Guanine	H	O-acyl
CH_3	O-amino acid	S	Cytosine	H	O-acyl
CH_3	O-amino acid	S	Adenine	H	O-acyl
CH_3	O-amino acid	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	S	Thymine	H	O-acyl
CH_3	O-acyl	S	Uracil	H	O-acyl
CH_3	O-acyl	S	Guanine	H	O-acyl
CH_3	O-acyl	S	Cytosine	H	O-acyl
CH_3	O-acyl	S	Adenine	H	O-acyl
CH_3	O-acyl	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	S	Thymine	H	O-acyl
CH_3	OH	S	Uracil	H	O-acyl
CH_3	OH	S	Guanine	H	O-acyl
CH_3	OH	S	Cytosine	H	O-acyl
CH_3	OH	S	Adenine	H	O-acyl
CH_3	OH	S	Hypoxanthine	H	O-acyl
CH_3	OH	S	5-Fluorouracil	H	O-acyl
CH_3	OH	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	S	2-Aminoadenine	H	O-acyl
CH_3	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	S	Thymine	OH	O-acyl
CH_3	H	S	Uracil	OH	O-acyl
CH_3	H	S	Guanine	OH	O-acyl
CH_3	H	S	Cytosine	OH	O-acyl
CH_3	H	S	Adenine	OH	O-acyl
CH_3	H	S	Hypoxanthine	OH	O-acyl
CH_3	H	S	5-Fluorouracil	OH	O-acyl
CH_3	H	S	8-Fluoroguanine	OH	O-acyl
CH_3	H	S	5-Fluorocytosine	OH	O-acyl
CH_3	H	S	8-Fluoroadenine	OH	O-acyl
CH_3	H	S	2-Fluoroadenine	OH	O-acyl
CH_3	H	S	2,8-Difluoroadenine	OH	O-acyl

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	2-Fluorohypoxanthine	OH	O-acyl
CH_3	H	S	8-Fluorohypoxanthine	OH	O-acyl
CH_3	H	S	2,8-Difluorohypoxanthine	OH	O-acyl
CH_3	H	S	2-Aminoadenine	OH	O-acyl
CH_3	H	S	2-Amino-8-fluoroadenine	OH	O-acyl
CH_3	H	S	2-Amino-8-fluorohypoxanthine	OH	O-acyl
CH_3	H	S	2-Aminohypoxanthine	OH	O-acyl
CH_3	H	S	2-N-acetylguanine	OH	O-acyl
CH_3	H	S	4-N-acetylcytosine	OH	O-acyl
CH_3	H	S	6-N-acetyladenine	OH	O-acyl
CH_3	H	S	2-N-acetyl-8-fluoroguanine	OH	O-acyl
CH_3	H	S	4-N-acetyl-5-fluorocytosine	OH	O-acyl
CH_3	H	S	6-N-acetyl-2-fluoroadenine	OH	O-acyl
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	OH	O-acyl
CH_3	H	S	6-N-acetyl-2-aminoadenine	OH	O-acyl
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-acyl
CH_3	H	S	2-N-acetylaminoadenine	OH	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	OH	O-acyl
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	O-acyl
CH_3	H	S	2-N-acetylaminohypoxanthine	OH	O-acyl
CH_3	H	S	Thymine	F	O-amino acid
CH_3	H	S	Uracil	F	O-amino acid
CH_3	H	S	Guanine	F	O-amino acid
CH_3	H	S	Cytosine	F	O-amino acid
CH_3	H	S	Adenine	F	O-amino acid
CH_3	H	S	Hypoxanthine	F	O-amino acid
CH_3	H	S	5-Fluorouracil	F	O-amino acid
CH_3	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	S	2-Aminoadenine	F	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	Thymine	F	O-amino acid
CH_3	O-amino acid	S	Uracil	F	O-amino acid
CH_3	O-amino acid	S	Guanine	F	O-amino acid
CH_3	O-amino acid	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	S	Adenine	F	O-amino acid
CH_3	O-amino acid	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	Thymine	F	O-amino acid
CH_3	O-acyl	S	Uracil	F	O-amino acid
CH_3	O-acyl	S	Guanine	F	O-amino acid
CH_3	O-acyl	S	Cytosine	F	O-amino acid
CH_3	O-acyl	S	Adenine	F	O-amino acid
CH_3	O-acyl	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	S	8-Fluoroadenine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	S	Thymine	F	O-amino acid
CH_3	OH	S	Uracil	F	O-amino acid
CH_3	OH	S	Guanine	F	O-amino acid
CH_3	OH	S	Cytosine	F	O-amino acid
CH_3	OH	S	Adenine	F	O-amino acid
CH_3	OH	S	Hypoxanthine	F	O-amino acid
CH_3	OH	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	S	Thymine	Br	O-amino acid
CH_3	H	S	Uracil	Br	O-amino acid
CH_3	H	S	Guanine	Br	O-amino acid
CH_3	H	S	Cytosine	Br	O-amino acid
CH_3	H	S	Adenine	Br	O-amino acid
CH_3	H	S	Hypoxanthine	Br	O-amino acid
CH_3	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	S	8-Fluoroguanine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	Thymine	Br	O-amino acid
CH_3	O-acyl	S	Uracil	Br	O-amino acid
CH_3	O-acyl	S	Guanine	Br	O-amino acid
CH_3	O-acyl	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	S	Adenine	Br	O-amino acid
CH_3	O-acyl	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	S	Thymine	Br	O-amino acid
CH_3	OH	S	Uracil	Br	O-amino acid
CH_3	OH	S	Guanine	Br	O-amino acid
CH_3	OH	S	Cytosine	Br	O-amino acid
CH_3	OH	S	Adenine	Br	O-amino acid
CH_3	OH	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	S	Thymine	Cl	O-amino acid
CH_3	H	S	Uracil	Cl	O-amino acid
CH_3	H	S	Guanine	Cl	O-amino acid
CH_3	H	S	Cytosine	Cl	O-amino acid
CH_3	H	S	Adenine	Cl	O-amino acid
CH_3	H	S	Hypoxanthine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	S	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	S	Thymine	Cl	O-amino acid
CH_3	OH	S	Uracil	Cl	O-amino acid
CH_3	OH	S	Guanine	Cl	O-amino acid
CH_3	OH	S	Cytosine	Cl	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	S	Adenine	Cl	O-amino acid
CH_3	OH	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	S	Thymine	H	O-amino acid
CH_3	H	S	Uracil	H	O-amino acid
CH_3	H	S	Guanine	H	O-amino acid
CH_3	H	S	Cytosine	H	O-amino acid
CH_3	H	S	Adenine	H	O-amino acid
CH_3	H	S	Hypoxanthine	H	O-amino acid
CH_3	H	S	5-Fluorouracil	H	O-amino acid
CH_3	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	S	2-Aminoadenine	H	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	Thymine	H	O-amino acid
CH_3	O-amino acid	S	Uracil	H	O-amino acid
CH_3	O-amino acid	S	Guanine	H	O-amino acid
CH_3	O-amino acid	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	S	Adenine	H	O-amino acid
CH_3	O-amino acid	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	Thymine	H	O-amino acid
CH_3	O-acyl	S	Uracil	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	Guanine	H	O-amino acid
CH_3	O-acyl	S	Cytosine	H	O-amino acid
CH_3	O-acyl	S	Adenine	H	O-amino acid
CH_3	O-acyl	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	S	Thymine	H	O-amino acid
CH_3	OH	S	Uracil	H	O-amino acid
CH_3	OH	S	Guanine	H	O-amino acid
CH_3	OH	S	Cytosine	H	O-amino acid
CH_3	OH	S	Adenine	H	O-amino acid
CH_3	OH	S	Hypoxanthine	H	O-amino acid
CH_3	OH	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	X	Base	R^8	R^9
CH_3	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	S	Thymine	OH	O-amino acid
CH_3	H	S	Uracil	OH	O-amino acid
CH_3	H	S	Guanine	OH	O-amino acid
CH_3	H	S	Cytosine	OH	O-amino acid
CH_3	H	S	Adenine	OH	O-amino acid
CH_3	H	S	Hypoxanthine	OH	O-amino acid
CH_3	H	S	5-Fluorouracil	OH	O-amino acid
CH_3	H	S	8-Fluoroguanine	OH	O-amino acid
CH_3	H	S	5-Fluorocytosine	OH	O-amino acid
CH_3	H	S	8-Fluoroadenine	OH	O-amino acid
CH_3	H	S	2-Fluoroadenine	OH	O-amino acid
CH_3	H	S	2,8-Difluoroadenine	OH	O-amino acid
CH_3	H	S	2-Fluorohypoxanthine	OH	O-amino acid
CH_3	H	S	8-Fluorohypoxanthine	OH	O-amino acid
CH_3	H	S	2,8-Difluorohypoxanthine	OH	O-amino acid
CH_3	H	S	2-Aminoadenine	OH	O-amino acid
CH_3	H	S	2-Amino-8-fluoroadenine	OH	O-amino acid
CH_3	H	S	2-Amino-8-fluorohypoxanthine	OH	O-amino acid
CH_3	H	S	2-Aminohypoxanthine	OH	O-amino acid
CH_3	H	S	2-N-acetylguanine	OH	O-amino acid
CH_3	H	S	4-N-acetylcytosine	OH	O-amino acid
CH_3	H	S	6-N-acetyladenine	OH	O-amino acid
CH_3	H	S	2-N-acetyl-8-fluoroguanine	OH	O-amino acid
CH_3	H	S	4-N-acetyl-5-fluorocytosine	OH	O-amino acid
CH_3	H	S	6-N-acetyl-2-fluoroadenine	OH	O-amino acid
CH_3	H	S	6-N-acetyl-2,8-difluoroadenine	OH	O-amino acid
CH_3	H	S	6-N-acetyl-2-aminoadenine	OH	O-amino acid
CH_3	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	O-amino acid
CH_3	H	S	2-N-acetylaminoadenine	OH	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluoroadenine	OH	O-amino acid
CH_3	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	O-amino acid
CH_3	H	S	2-N-acetylaminohypoxanthine	OH	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	Thymine	F	OH
CH_3	O-amino acid	S	Uracil	F	OH
CH_3	O-amino acid	S	Guanine	F	OH
CH_3	O-amino acid	S	Cytosine	F	OH
CH_3	O-amino acid	S	Adenine	F	OH
CH_3	O-amino acid	S	Hypoxanthine	F	OH
CH_3	O-amino acid	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	S	Thymine	F	OH
CH_3	O-acyl	S	Uracil	F	OH
CH_3	O-acyl	S	Guanine	F	OH
CH_3	O-acyl	S	Cytosine	F	OH
CH_3	O-acyl	S	Adenine	F	OH
CH_3	O-acyl	S	Hypoxanthine	F	OH
CH_3	O-acyl	S	5-Fluorouracil	F	OH
CH_3	O-acyl	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	F	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2-Aminoadenine	F	OH
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	S	Thymine	Br	OH
CH_3	O-amino acid	S	Uracil	Br	OH
CH_3	O-amino acid	S	Guanine	Br	OH
CH_3	O-amino acid	S	Cytosine	Br	OH
CH_3	O-amino acid	S	Adenine	Br	OH
CH_3	O-amino acid	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Br	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	S	Thymine	Br	OH
CH_3	O-acyl	S	Uracil	Br	OH
CH_3	O-acyl	S	Guanine	Br	OH
CH_3	O-acyl	S	Cytosine	Br	OH
CH_3	O-acyl	S	Adenine	Br	OH
CH_3	O-acyl	S	Hypoxanthine	Br	OH
CH_3	O-acyl	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	S	Thymine	Cl	OH
CH_3	O-amino acid	S	Uracil	Cl	OH
CH_3	O-amino acid	S	Guanine	Cl	OH
CH_3	O-amino acid	S	Cytosine	Cl	OH
CH_3	O-amino acid	S	Adenine	Cl	OH
CH_3	O-amino acid	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	S	2-Fluorohypoxanthine	Cl	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-amino acid	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	S	Thymine	Cl	OH
CH_3	O-acyl	S	Uracil	Cl	OH
CH_3	O-acyl	S	Guanine	Cl	OH
CH_3	O-acyl	S	Cytosine	Cl	OH
CH_3	O-acyl	S	Adenine	Cl	OH
CH_3	O-acyl	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	S	Thymine	H	OH
CH_3	O-amino acid	S	Uracil	H	OH
CH_3	O-amino acid	S	Guanine	H	OH
CH_3	O-amino acid	S	Cytosine	H	OH
CH_3	O-amino acid	S	Adenine	H	OH
CH_3	O-amino acid	S	Hypoxanthine	H	OH
CH_3	O-amino acid	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	S	Thymine	H	OH
CH_3	O-acyl	S	Uracil	H	OH
CH_3	O-acyl	S	Guanine	H	OH
CH_3	O-acyl	S	Cytosine	H	OH
CH_3	O-acyl	S	Adenine	H	OH
CH_3	O-acyl	S	Hypoxanthine	H	OH
CH_3	O-acyl	S	5-Fluorouracil	H	OH
CH_3	O-acyl	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	S	2-Fluoroadenine	H	OH

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	S	2-Aminoadenine	H	OH
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	S	Thymine	O-amino acid	H
CH_3	O-amino acid	S	Uracil	O-amino acid	H
CH_3	O-amino acid	S	Guanine	O-amino acid	H
CH_3	O-amino acid	S	Cytosine	O-amino acid	H
CH_3	O-amino acid	S	Adenine	O-amino acid	H
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	Thymine	O-acyl	H
CH_3	O-acyl	S	Uracil	O-acyl	H
CH_3	O-acyl	S	Guanine	O-acyl	H
CH_3	O-acyl	S	Cytosine	O-acyl	H
CH_3	O-acyl	S	Adenine	O-acyl	H
CH_3	O-acyl	S	Hypoxanthine	O-acyl	H
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	Thymine	O-amino acid	H
CH_3	O-amino acid	S	Uracil	O-amino acid	H
CH_3	O-amino acid	S	Guanine	O-amino acid	H
CH_3	O-amino acid	S	Cytosine	O-amino acid	H
CH_3	O-amino acid	S	Adenine	O-amino acid	H
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	Thymine	O-acyl	H
CH_3	O-acyl	S	Uracil	O-acyl	H
CH_3	O-acyl	S	Guanine	O-acyl	H
CH_3	O-acyl	S	Cytosine	O-acyl	H
CH_3	O-acyl	S	Adenine	O-acyl	H
CH_3	O-acyl	S	Hypoxanthine	O-acyl	H
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	Thymine	O-amino acid	H
CH_3	O-amino acid	S	Uracil	O-amino acid	H
CH_3	O-amino acid	S	Guanine	O-amino acid	H
CH_3	O-amino acid	S	Cytosine	O-amino acid	H
CH_3	O-amino acid	S	Adenine	O-amino acid	H
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	Thymine	O-acyl	H
CH_3	O-acyl	S	Uracil	O-acyl	H
CH_3	O-acyl	S	Guanine	O-acyl	H
CH_3	O-acyl	S	Cytosine	O-acyl	H
CH_3	O-acyl	S	Adenine	O-acyl	H
CH_3	O-acyl	S	Hypoxanthine	O-acyl	H
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	Thymine	O-amino acid	H
CH_3	O-amino acid	S	Uracil	O-amino acid	H
CH_3	O-amino acid	S	Guanine	O-amino acid	H
CH_3	O-amino acid	S	Cytosine	O-amino acid	H
CH_3	O-amino acid	S	Adenine	O-amino acid	H
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	Thymine	O-acyl	H
CH_3	O-acyl	S	Uracil	O-acyl	H
CH_3	O-acyl	S	Guanine	O-acyl	H
CH_3	O-acyl	S	Cytosine	O-acyl	H
CH_3	O-acyl	S	Adenine	O-acyl	H
CH_3	O-acyl	S	Hypoxanthine	O-acyl	H
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H
CH_3	O-amino acid	S	Thymine	O-amino acid	H
CH_3	O-amino acid	S	Uracil	O-amino acid	H
CH_3	O-amino acid	S	Guanine	O-amino acid	H
CH_3	O-amino acid	S	Cytosine	O-amino acid	H
CH_3	O-amino acid	S	Adenine	O-amino acid	H
CH_3	O-amino acid	S	Hypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorouracil	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	5-Fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2,8-Difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	8-Fluorohypoxanthine	O-amino	H

R^6	R^7	X	Base	R^8	R^9
				acid	
CH_3	O-amino acid	S	2,8-Difluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-Amino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-Aminohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetylcytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyladenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetyl-8-fluoroguanine	O-amino acid	H
CH_3	O-amino acid	S	4-N-acetyl-5-fluorocytosine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2,8-difluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-aminoadenine	O-amino acid	H
CH_3	O-amino acid	S	6-N-acetyl-2-amino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminoadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluoroadenine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylamino-8-fluorohypoxanthine	O-amino acid	H
CH_3	O-amino acid	S	2-N-acetylaminohypoxanthine	O-amino acid	H
CH_3	O-acyl	S	Thymine	O-acyl	H
CH_3	O-acyl	S	Uracil	O-acyl	H
CH_3	O-acyl	S	Guanine	O-acyl	H
CH_3	O-acyl	S	Cytosine	O-acyl	H
CH_3	O-acyl	S	Adenine	O-acyl	H
CH_3	O-acyl	S	Hypoxanthine	O-acyl	H
CH_3	O-acyl	S	5-Fluorouracil	O-acyl	H
CH_3	O-acyl	S	8-Fluoroguanine	O-acyl	H
CH_3	O-acyl	S	5-Fluorocytosine	O-acyl	H
CH_3	O-acyl	S	8-Fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluoroadenine	O-acyl	H

R^6	R^7	X	Base	R^8	R^9
CH_3	O-acyl	S	2,8-Difluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	8-Fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2,8-Difluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminoadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-Amino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-Aminohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetylcytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyladenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetyl-8-fluoroguanine	O-acyl	H
CH_3	O-acyl	S	4-N-acetyl-5-fluorocytosine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2,8-difluoroadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-aminoadenine	O-acyl	H
CH_3	O-acyl	S	6-N-acetyl-2-amino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminoadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluoroadenine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylamino-8-fluorohypoxanthine	O-acyl	H
CH_3	O-acyl	S	2-N-acetylaminohypoxanthine	O-acyl	H

Table 19

R^2	R^3	X^1	Y
acyl	H	H	H
acyl	H	H	NH_2
acyl	H	H	NH-cyclopropyl
acyl	H	H	NH-methyl
acyl	H	H	NH-ethyl
acyl	H	H	NH-acetyl
acyl	H	H	OH
acyl	H	H	OMe
acyl	H	H	OEt
acyl	H	H	O-cyclopropyl
acyl	H	H	O-acetyl
acyl	H	H	SH
acyl	H	H	SMe
acyl	H	H	SEt
acyl	H	H	S-cyclopropyl
acyl	H	H	F
acyl	H	H	Cl
acyl	H	H	Br
acyl	H	H	I
acyl	acyl	H	H
acyl	acyl	H	NH_2
acyl	acyl	H	NH-cyclopropyl
acyl	acyl	H	NH-methyl
acyl	acyl	H	NH-ethyl
acyl	acyl	H	NH-acetyl
acyl	acyl	H	OH
acyl	acyl	H	OMe
acyl	acyl	H	OEt
acyl	acyl	H	O-cyclopropyl
acyl	acyl	H	O-acetyl
acyl	acyl	H	SH
acyl	acyl	H	SMe
acyl	acyl	H	SEt
acyl	acyl	H	S-cyclopropyl
acyl	acyl	H	F
acyl	acyl	H	Cl
acyl	acyl	H	Br
acyl	acyl	H	I
acyl	amino acid	H	H
acyl	amino acid	H	NH_2
acyl	amino acid	H	NH-cyclopropyl
acyl	amino acid	H	NH-methyl
acyl	amino acid	H	NH-ethyl
acyl	amino acid	H	NH-acetyl
acyl	amino acid	H	OH

R^2	R^3	X^1	Y
acyl	amino acid	H	OMe
acyl	amino acid	H	OEt
acyl	amino acid	H	O-cyclopropyl
acyl	amino acid	H	O-acetyl
acyl	amino acid	H	SH
acyl	amino acid	H	SMe
acyl	amino acid	H	SEt
acyl	amino acid	H	S-cyclopropyl
acyl	amino acid	H	F
acyl	amino acid	H	Cl
acyl	amino acid	H	Br
acyl	amino acid	H	I
H	acyl	H	H
H	acyl	H	NH_2
H	acyl	H	NH-cyclopropyl
H	acyl	H	NH-methyl
H	acyl	H	NH-ethyl
H	acyl	H	NH-acetyl
H	acyl	H	OH
H	acyl	H	OMe
H	acyl	H	OEt
H	acyl	H	O-cyclopropyl
H	acyl	H	O-acetyl
H	acyl	H	SH
H	acyl	H	SMe
H	acyl	H	SEt
H	acyl	H	S-cyclopropyl
H	acyl	H	F
H	acyl	H	Cl
H	acyl	H	Br
H	acyl	H	I
H	amino acid	H	H
H	amino acid	H	NH_2
H	amino acid	H	NH-cyclopropyl
H	amino acid	H	NH-methyl
H	amino acid	H	NH-ethyl
H	amino acid	H	NH-acetyl
H	amino acid	H	OH
H	amino acid	H	OMe
H	amino acid	H	OEt
H	amino acid	H	O-cyclopropyl
H	amino acid	H	O-acetyl
H	amino acid	H	SH
H	amino acid	H	SMe
H	amino acid	H	SEt
H	amino acid	H	S-cyclopropyl
H	amino acid	H	F

R^2	R^3	X^1	Y
H	amino acid	H	Cl
H	amino acid	H	Br
H	amino acid	H	I
amino acid	amino acid	H	H
amino acid	amino acid	H	NH_2
amino acid	amino acid	H	NH-cyclopropyl
amino acid	amino acid	H	NH-methyl
amino acid	amino acid	H	NH-ethyl
amino acid	amino acid	H	NH-acetyl
amino acid	amino acid	H	OH
amino acid	amino acid	H	OMe
amino acid	amino acid	H	OEt
amino acid	amino acid	H	O-cyclopropyl
amino acid	amino acid	H	O-acetyl
amino acid	amino acid	H	SH
amino acid	amino acid	H	SMe
amino acid	amino acid	H	SEt
amino acid	amino acid	H	S-cyclopropyl
amino acid	amino acid	H	F
amino acid	amino acid	H	Cl
amino acid	amino acid	H	Br
amino acid	amino acid	H	I
amino acid	H	H	H
amino acid	H	H	NH_2
amino acid	H	H	NH-cyclopropyl
amino acid	H	H	NH-methyl
amino acid	H	H	NH-ethyl
amino acid	H	H	NH-acetyl
amino acid	H	H	OH
amino acid	H	H	OMe
amino acid	H	H	OEt
amino acid	H	H	O-cyclopropyl
amino acid	H	H	O-acetyl
amino acid	H	H	SH
amino acid	H	H	SMe
amino acid	H	H	SEt
amino acid	H	H	S-cyclopropyl
amino acid	H	H	F
amino acid	H	H	Cl
amino acid	H	H	Br
amino acid	H	H	I
amino acid	acyl	H	H
amino acid	acyl	H	NH_2
amino acid	acyl	H	NH-cyclopropyl
amino acid	acyl	H	NH-methyl
amino acid	acyl	H	NH-ethyl
amino acid	acyl	H	NH-acetyl

R^2	R^3	X^1	Y
amino acid	acyl	H	OH
amino acid	acyl	H	OMe
amino acid	acyl	H	OEt
amino acid	acyl	H	O-cyclopropyl
amino acid	acyl	H	O-acetyl
amino acid	acyl	H	SH
amino acid	acyl	H	SMe
amino acid	acyl	H	SEt
amino acid	acyl	H	S-cyclopropyl
amino acid	acyl	H	F
amino acid	acyl	H	Cl
amino acid	acyl	H	Br
amino acid	acyl	H	I
acyl	H	SH	H
acyl	H	SH	NH_2
acyl	H	SH	NH-cyclopropyl
acyl	H	SH	NH-methyl
acyl	H	SH	NH-ethyl
acyl	H	SH	NH-acetyl
acyl	H	SH	OH
acyl	H	SH	OMe
acyl	H	SH	OEt
acyl	H	SH	O-cyclopropyl
acyl	H	SH	O-acetyl
acyl	H	SH	SH
acyl	H	SH	SMe
acyl	H	SH	SEt
acyl	H	SH	S-cyclopropyl
acyl	H	SH	F
acyl	H	SH	Cl
acyl	H	SH	Br
acyl	H	SH	I
acyl	acyl	SH	H
acyl	acyl	SH	NH_2
acyl	acyl	SH	NH-cyclopropyl
acyl	acyl	SH	NH-methyl
acyl	acyl	SH	NH-ethyl
acyl	acyl	SH	NH-acetyl
acyl	acyl	SH	OH
acyl	acyl	SH	OMe
acyl	acyl	SH	OEt
acyl	acyl	SH	O-cyclopropyl
acyl	acyl	SH	O-acetyl
acyl	acyl	SH	SH
acyl	acyl	SH	SMe
acyl	acyl	SH	SEt
acyl	acyl	SH	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	acyl	SH	F
acyl	acyl	SH	Cl
acyl	acyl	SH	Br
acyl	acyl	SH	I
acyl	amino acid	SH	H
acyl	amino acid	SH	NH_2
acyl	amino acid	SH	NH-cyclopropyl
acyl	amino acid	SH	NH-methyl
acyl	amino acid	SH	NH-ethyl
acyl	amino acid	SH	NH-acetyl
acyl	amino acid	SH	OH
acyl	amino acid	SH	OMe
acyl	amino acid	SH	OEt
acyl	amino acid	SH	O-cyclopropyl
acyl	amino acid	SH	O-acetyl
acyl	amino acid	SH	SH
acyl	amino acid	SH	SMe
acyl	amino acid	SH	SEt
acyl	amino acid	SH	S-cyclopropyl
acyl	amino acid	SH	F
acyl	amino acid	SH	Cl
acyl	amino acid	SH	Br
acyl	amino acid	SH	I
H	acyl	SH	H
H	acyl	SH	NH_2
H	acyl	SH	NH-cyclopropyl
H	acyl	SH	NH-methyl
H	acyl	SH	NH-ethyl
H	acyl	SH	NH-acetyl
H	acyl	SH	OH
H	acyl	SH	OMe
H	acyl	SH	OEt
H	acyl	SH	O-cyclopropyl
H	acyl	SH	O-acetyl
H	acyl	SH	SH
H	acyl	SH	SMe
H	acyl	SH	SEt
H	acyl	SH	S-cyclopropyl
H	acyl	SH	F
H	acyl	SH	Cl
H	acyl	SH	Br
H	acyl	SH	I
H	amino acid	SH	H
H	amino acid	SH	NH_2
H	amino acid	SH	NH-cyclopropyl
H	amino acid	SH	NH-methyl
H	amino acid	SH	NH-ethyl

R^2	R^3	X^1	Y
H	amino acid	SH	NH-acetyl
H	amino acid	SH	OH
H	amino acid	SH	OMe
H	amino acid	SH	OEt
H	amino acid	SH	O-cyclopropyl
H	amino acid	SH	O-acetyl
H	amino acid	SH	SH
H	amino acid	SH	SMe
H	amino acid	SH	SEt
H	amino acid	SH	S-cyclopropyl
H	amino acid	SH	F
H	amino acid	SH	Cl
H	amino acid	SH	Br
H	amino acid	SH	I
amino acid	amino acid	SH	H
amino acid	amino acid	SH	NH_2
amino acid	amino acid	SH	NH-cyclopropyl
amino acid	amino acid	SH	NH-methyl
amino acid	amino acid	SH	NH-ethyl
amino acid	amino acid	SH	NH-acetyl
amino acid	amino acid	SH	OH
amino acid	amino acid	SH	OMe
amino acid	amino acid	SH	OEt
amino acid	amino acid	SH	O-cyclopropyl
amino acid	amino acid	SH	O-acetyl
amino acid	amino acid	SH	SH
amino acid	amino acid	SH	SMe
amino acid	amino acid	SH	SEt
amino acid	amino acid	SH	S-cyclopropyl
amino acid	amino acid	SH	F
amino acid	amino acid	SH	Cl
amino acid	amino acid	SH	Br
amino acid	amino acid	SH	I
amino acid	H	SH	H
amino acid	H	SH	NH_2
amino acid	H	SH	NH-cyclopropyl
amino acid	H	SH	NH-methyl
amino acid	H	SH	NH-ethyl
amino acid	H	SH	NH-acetyl
amino acid	H	SH	OH
amino acid	H	SH	OMe
amino acid	H	SH	OEt
amino acid	H	SH	O-cyclopropyl
amino acid	H	SH	O-acetyl
amino acid	H	SH	SH
amino acid	H	SH	SMe
amino acid	H	SH	SEt

R^2	R^3	X^1	Y
amino acid	H	SH	S-cyclopropyl
amino acid	H	SH	F
amino acid	H	SH	Cl
amino acid	H	SH	Br
amino acid	H	SH	I
amino acid	acyl	SH	H
amino acid	acyl	SH	NH_2
amino acid	acyl	SH	NH-cyclopropyl
amino acid	acyl	SH	NH-methyl
amino acid	acyl	SH	NH-ethyl
amino acid	acyl	SH	NH-acetyl
amino acid	acyl	SH	OH
amino acid	acyl	SH	OMe
amino acid	acyl	SH	OEt
amino acid	acyl	SH	O-cyclopropyl
amino acid	acyl	SH	O-acetyl
amino acid	acyl	SH	SH
amino acid	acyl	SH	SMe
amino acid	acyl	SH	SEt
amino acid	acyl	SH	S-cyclopropyl
amino acid	acyl	SH	F
amino acid	acyl	SH	Cl
amino acid	acyl	SH	Br
amino acid	acyl	SH	I
acyl	H	Cl	H
acyl	H	Cl	NH_2
acyl	H	Cl	NH-cyclopropyl
acyl	H	Cl	NH-methyl
acyl	H	Cl	NH-ethyl
acyl	H	Cl	NH-acetyl
acyl	H	Cl	OH
acyl	H	Cl	OMe
acyl	H	Cl	OEt
acyl	H	Cl	O-cyclopropyl
acyl	H	Cl	O-acetyl
acyl	H	Cl	SH
acyl	H	Cl	SMe
acyl	H	Cl	SEt
acyl	H	Cl	S-cyclopropyl
acyl	H	Cl	F
acyl	H	Cl	Cl
acyl	H	Cl	Br
acyl	H	Cl	I
acyl	acyl	Cl	H
acyl	acyl	Cl	NH_2
acyl	acyl	Cl	NH-cyclopropyl
acyl	acyl	Cl	NH-methyl

R^2	R^3	X^1	Y
acyl	acyl	Cl	NH-ethyl
acyl	acyl	Cl	NH-acetyl
acyl	acyl	Cl	OH
acyl	acyl	Cl	OMe
acyl	acyl	Cl	OEt
acyl	acyl	Cl	O-cyclopropyl
acyl	acyl	Cl	O-acetyl
acyl	acyl	Cl	SH
acyl	acyl	Cl	SMe
acyl	acyl	Cl	SEt
acyl	acyl	Cl	S-cyclopropyl
acyl	acyl	Cl	F
acyl	acyl	Cl	Cl
acyl	acyl	Cl	Br
acyl	acyl	Cl	I
acyl	amino acid	Cl	H
acyl	amino acid	Cl	NH_2
acyl	amino acid	Cl	NH-cyclopropyl
acyl	amino acid	Cl	NH-methyl
acyl	amino acid	Cl	NH-ethyl
acyl	amino acid	Cl	NH-acetyl
acyl	amino acid	Cl	OH
acyl	amino acid	Cl	OMe
acyl	amino acid	Cl	OEt
acyl	amino acid	Cl	O-cyclopropyl
acyl	amino acid	Cl	O-acetyl
acyl	amino acid	Cl	SH
acyl	amino acid	Cl	SMe
acyl	amino acid	Cl	SEt
acyl	amino acid	Cl	S-cyclopropyl
acyl	amino acid	Cl	F
acyl	amino acid	Cl	Cl
acyl	amino acid	Cl	Br
acyl	amino acid	Cl	I
H	acyl	Cl	H
H	acyl	Cl	NH_2
H	acyl	Cl	NH-cyclopropyl
H	acyl	Cl	NH-methyl
H	acyl	Cl	NH-ethyl
H	acyl	Cl	NH-acetyl
H	acyl	Cl	OH
H	acyl	Cl	OMe
H	acyl	Cl	OEt
H	acyl	Cl	O-cyclopropyl
H	acyl	Cl	O-acetyl
H	acyl	Cl	SH
H	acyl	Cl	SMe

R^2	R^3	X^1	Y
H	acyl	Cl	SEt
H	acyl	Cl	S-cyclopropyl
H	acyl	Cl	F
H	acyl	Cl	Cl
H	acyl	Cl	Br
H	acyl	Cl	I
H	amino acid	Cl	H
H	amino acid	Cl	NH_2
H	amino acid	Cl	NH-cyclopropyl
H	amino acid	Cl	NH-methyl
H	amino acid	Cl	NH-ethyl
H	amino acid	Cl	NH-acetyl
H	amino acid	Cl	OH
H	amino acid	Cl	OMe
H	amino acid	Cl	OEt
H	amino acid	Cl	O-cyclopropyl
H	amino acid	Cl	O-acetyl
H	amino acid	Cl	SH
H	amino acid	Cl	SMe
H	amino acid	Cl	SEt
H	amino acid	Cl	S-cyclopropyl
H	amino acid	Cl	F
H	amino acid	Cl	Cl
H	amino acid	Cl	Br
H	amino acid	Cl	I
amino acid	amino acid	Cl	H
amino acid	amino acid	Cl	NH_2
amino acid	amino acid	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	NH-methyl
amino acid	amino acid	Cl	NH-ethyl
amino acid	amino acid	Cl	NH-acetyl
amino acid	amino acid	Cl	OH
amino acid	amino acid	Cl	OMe
amino acid	amino acid	Cl	OEt
amino acid	amino acid	Cl	O-cyclopropyl
amino acid	amino acid	Cl	O-acetyl
amino acid	amino acid	Cl	SH
amino acid	amino acid	Cl	SMe
amino acid	amino acid	Cl	SEt
amino acid	amino acid	Cl	S-cyclopropyl
amino acid	amino acid	Cl	F
amino acid	amino acid	Cl	Cl
amino acid	amino acid	Cl	Br
amino acid	amino acid	Cl	I
amino acid	H	Cl	H
amino acid	H	Cl	NH_2
amino acid	H	Cl	NH-cyclopropyl

R^2	R^3	X^1	Y
amino acid	H	Cl	NH-methyl
amino acid	H	Cl	NH-ethyl
amino acid	H	Cl	NH-acetyl
amino acid	H	Cl	OH
amino acid	H	Cl	OMe
amino acid	H	Cl	OEt
amino acid	H	Cl	O-cyclopropyl
amino acid	H	Cl	O-acetyl
amino acid	H	Cl	SH
amino acid	H	Cl	SMe
amino acid	H	Cl	SEt
amino acid	H	Cl	S-cyclopropyl
amino acid	H	Cl	F
amino acid	H	Cl	Cl
amino acid	H	Cl	Br
amino acid	H	Cl	I
amino acid	acyl	Cl	H
amino acid	acyl	Cl	NH_2
amino acid	acyl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	NH-methyl
amino acid	acyl	Cl	NH-ethyl
amino acid	acyl	Cl	NH-acetyl
amino acid	acyl	Cl	OH
amino acid	acyl	Cl	OMe
amino acid	acyl	Cl	OEt
amino acid	acyl	Cl	O-cyclopropyl
amino acid	acyl	Cl	O-acetyl
amino acid	acyl	Cl	SH
amino acid	acyl	Cl	SMe
amino acid	acyl	Cl	SEt
amino acid	acyl	Cl	S-cyclopropyl
amino acid	acyl	Cl	F
amino acid	acyl	Cl	Cl
amino acid	acyl	Cl	Br
amino acid	acyl	Cl	I
acyl	H	Br	H
acyl	H	Br	NH_2
acyl	H	Br	NH-cyclopropyl
acyl	H	Br	NH-methyl
acyl	H	Br	NH-ethyl
acyl	H	Br	NH-acetyl
acyl	H	Br	OH
acyl	H	Br	OMe
acyl	H	Br	OEt
acyl	H	Br	O-cyclopropyl
acyl	H	Br	O-acetyl
acyl	H	Br	SH

R^2	R^3	X^1	Y
acyl	H	Br	SMe
acyl	H	Br	SEt
acyl	H	Br	S-cyclopropyl
acyl	H	Br	F
acyl	H	Br	Cl
acyl	H	Br	Br
acyl	H	Br	I
acyl	acyl	Br	H
acyl	acyl	Br	NH_2
acyl	acyl	Br	NH-cyclopropyl
acyl	acyl	Br	NH-methyl
acyl	acyl	Br	NH-ethyl
acyl	acyl	Br	NH-acetyl
acyl	acyl	Br	OH
acyl	acyl	Br	OMe
acyl	acyl	Br	OEt
acyl	acyl	Br	O-cyclopropyl
acyl	acyl	Br	O-acetyl
acyl	acyl	Br	SH
acyl	acyl	Br	SMe
acyl	acyl	Br	SEt
acyl	acyl	Br	S-cyclopropyl
acyl	acyl	Br	F
acyl	acyl	Br	Cl
acyl	acyl	Br	Br
acyl	acyl	Br	I
acyl	amino acid	Br	H
acyl	amino acid	Br	NH_2
acyl	amino acid	Br	NH-cyclopropyl
acyl	amino acid	Br	NH-methyl
acyl	amino acid	Br	NH-ethyl
acyl	amino acid	Br	NH-acetyl
acyl	amino acid	Br	OH
acyl	amino acid	Br	OMe
acyl	amino acid	Br	OEt
acyl	amino acid	Br	O-cyclopropyl
acyl	amino acid	Br	O-acetyl
acyl	amino acid	Br	SH
acyl	amino acid	Br	SMe
acyl	amino acid	Br	SEt
acyl	amino acid	Br	S-cyclopropyl
acyl	amino acid	Br	F
acyl	amino acid	Br	Cl
acyl	amino acid	Br	Br
acyl	amino acid	Br	I
H	acyl	Br	H
H	acyl	Br	NH_2

R^2	R^3	X^1	Y
H	acyl	Br	NH-cyclopropyl
H	acyl	Br	NH-methyl
H	acyl	Br	NH-ethyl
H	acyl	Br	NH-acetyl
H	acyl	Br	OH
H	acyl	Br	OMe
H	acyl	Br	OEt
H	acyl	Br	O-cyclopropyl
H	acyl	Br	O-acetyl
H	acyl	Br	SH
H	acyl	Br	SMe
H	acyl	Br	SEt
H	acyl	Br	S-cyclopropyl
H	acyl	Br	F
H	acyl	Br	Cl
H	acyl	Br	Br
H	acyl	Br	I
H	amino acid	Br	H
H	amino acid	Br	NH_2
H	amino acid	Br	NH-cyclopropyl
H	amino acid	Br	NH-methyl
H	amino acid	Br	NH-ethyl
H	amino acid	Br	NH-acetyl
H	amino acid	Br	OH
H	amino acid	Br	OMe
H	amino acid	Br	OEt
H	amino acid	Br	O-cyclopropyl
H	amino acid	Br	O-acetyl
H	amino acid	Br	SH
H	amino acid	Br	SMe
H	amino acid	Br	SEt
H	amino acid	Br	S-cyclopropyl
H	amino acid	Br	F
H	amino acid	Br	Cl
H	amino acid	Br	Br
H	amino acid	Br	I
amino acid	amino acid	Br	H
amino acid	amino acid	Br	NH_2
amino acid	amino acid	Br	NH-cyclopropyl
amino acid	amino acid	Br	NH-methyl
amino acid	amino acid	Br	NH-ethyl
amino acid	amino acid	Br	NH-acetyl
amino acid	amino acid	Br	OH
amino acid	amino acid	Br	OMe
amino acid	amino acid	Br	OEt
amino acid	amino acid	Br	O-cyclopropyl
amino acid	amino acid	Br	O-acetyl

R^2	R^3	X^1	Y
amino acid	amino acid	Br	SH
amino acid	amino acid	Br	SMe
amino acid	amino acid	Br	SEt
amino acid	amino acid	Br	S-cyclopropyl
amino acid	amino acid	Br	F
amino acid	amino acid	Br	Cl
amino acid	amino acid	Br	Br
amino acid	amino acid	Br	I
amino acid	H	Br	H
amino acid	H	Br	NH_2
amino acid	H	Br	NH-cyclopropyl
amino acid	H	Br	NH-methyl
amino acid	H	Br	NH-ethyl
amino acid	H	Br	NH-acetyl
amino acid	H	Br	OH
amino acid	H	Br	OMe
amino acid	H	Br	OEt
amino acid	H	Br	O-cyclopropyl
amino acid	H	Br	O-acetyl
amino acid	H	Br	SH
amino acid	H	Br	SMe
amino acid	H	Br	SEt
amino acid	H	Br	S-cyclopropyl
amino acid	H	Br	F
amino acid	H	Br	Cl
amino acid	H	Br	Br
amino acid	H	Br	I
amino acid	acyl	Br	H
amino acid	acyl	Br	NH_2
amino acid	acyl	Br	NH-cyclopropyl
amino acid	acyl	Br	NH-methyl
amino acid	acyl	Br	NH-ethyl
amino acid	acyl	Br	NH-acetyl
amino acid	acyl	Br	OH
amino acid	acyl	Br	OMe
amino acid	acyl	Br	OEt
amino acid	acyl	Br	O-cyclopropyl
amino acid	acyl	Br	O-acetyl
amino acid	acyl	Br	SH
amino acid	acyl	Br	SMe
amino acid	acyl	Br	SEt
amino acid	acyl	Br	S-cyclopropyl
amino acid	acyl	Br	F
amino acid	acyl	Br	Cl
amino acid	acyl	Br	Br
amino acid	acyl	Br	I
acyl	H	NH_2	H

R^2	R^3	X^1	Y
acyl	H	NH_2	NH_2
acyl	H	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH-methyl
acyl	H	NH_2	NH-ethyl
acyl	H	NH_2	NH-acetyl
acyl	H	NH_2	OH
acyl	H	NH_2	OMe
acyl	H	NH_2	OEt
acyl	H	NH_2	O-cyclopropyl
acyl	H	NH_2	O-acetyl
acyl	H	NH_2	SH
acyl	H	NH_2	SMe
acyl	H	NH_2	SEt
acyl	H	NH_2	S-cyclopropyl
acyl	H	NH_2	F
acyl	H	NH_2	Cl
acyl	H	NH_2	Br
acyl	H	NH_2	I
acyl	acyl	NH_2	H
acyl	acyl	NH_2	NH_2
acyl	acyl	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH-methyl
acyl	acyl	NH_2	NH-ethyl
acyl	acyl	NH_2	NH-acetyl
acyl	acyl	NH_2	OH
acyl	acyl	NH_2	OMe
acyl	acyl	NH_2	OEt
acyl	acyl	NH_2	O-cyclopropyl
acyl	acyl	NH_2	O-acetyl
acyl	acyl	NH_2	SH
acyl	acyl	NH_2	SMe
acyl	acyl	NH_2	SEt
acyl	acyl	NH_2	S-cyclopropyl
acyl	acyl	NH_2	F
acyl	acyl	NH_2	Cl
acyl	acyl	NH_2	Br
acyl	acyl	NH_2	I
acyl	amino acid	NH_2	H
acyl	amino acid	NH_2	NH_2
acyl	amino acid	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH-methyl
acyl	amino acid	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH-acetyl
acyl	amino acid	NH_2	OH
acyl	amino acid	NH_2	OMe
acyl	amino acid	NH_2	OEt
acyl	amino acid	NH_2	O-cyclopropyl

R^2	R^3	X^1	Y
acyl	amino acid	NH_2	O-acetyl
acyl	amino acid	NH_2	SH
acyl	amino acid	NH_2	SMe
acyl	amino acid	NH_2	SEt
acyl	amino acid	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	F
acyl	amino acid	NH_2	Cl
acyl	amino acid	NH_2	Br
acyl	amino acid	NH_2	I
H	acyl	NH_2	H
H	acyl	NH_2	NH_2
H	acyl	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH-methyl
H	acyl	NH_2	NH-ethyl
H	acyl	NH_2	NH-acetyl
H	acyl	NH_2	OH
H	acyl	NH_2	OMe
H	acyl	NH_2	OEt
H	acyl	NH_2	O-cyclopropyl
H	acyl	NH_2	O-acetyl
H	acyl	NH_2	SH
H	acyl	NH_2	SMe
H	acyl	NH_2	SEt
H	acyl	NH_2	S-cyclopropyl
H	acyl	NH_2	F
H	acyl	NH_2	Cl
H	acyl	NH_2	Br
H	acyl	NH_2	I
H	amino acid	NH_2	H
H	amino acid	NH_2	NH_2
H	amino acid	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH-methyl
H	amino acid	NH_2	NH-ethyl
H	amino acid	NH_2	NH-acetyl
H	amino acid	NH_2	OH
H	amino acid	NH_2	OMe
H	amino acid	NH_2	OEt
H	amino acid	NH_2	O-cyclopropyl
H	amino acid	NH_2	O-acetyl
H	amino acid	NH_2	SH
H	amino acid	NH_2	SMe
H	amino acid	NH_2	SEt
H	amino acid	NH_2	S-cyclopropyl
H	amino acid	NH_2	F
H	amino acid	NH_2	Cl
H	amino acid	NH_2	Br
H	amino acid	NH_2	I

R^2	R^3	X^1	Y
amino acid	amino acid	NH_2	H
amino acid	amino acid	NH_2	NH_2
amino acid	amino acid	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH-acetyl
amino acid	amino acid	NH_2	OH
amino acid	amino acid	NH_2	OMe
amino acid	amino acid	NH_2	OEt
amino acid	amino acid	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	O-acetyl
amino acid	amino acid	NH_2	SH
amino acid	amino acid	NH_2	SMe
amino acid	amino acid	NH_2	SEt
amino acid	amino acid	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	F
amino acid	amino acid	NH_2	Cl
amino acid	amino acid	NH_2	Br
amino acid	amino acid	NH_2	I
amino acid	H	NH_2	H
amino acid	H	NH_2	NH_2
amino acid	H	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH-methyl
amino acid	H	NH_2	NH-ethyl
amino acid	H	NH_2	NH-acetyl
amino acid	H	NH_2	OH
amino acid	H	NH_2	OMe
amino acid	H	NH_2	OEt
amino acid	H	NH_2	O-cyclopropyl
amino acid	H	NH_2	O-acetyl
amino acid	H	NH_2	SH
amino acid	H	NH_2	SMe
amino acid	H	NH_2	SEt
amino acid	H	NH_2	S-cyclopropyl
amino acid	H	NH_2	F
amino acid	H	NH_2	Cl
amino acid	H	NH_2	Br
amino acid	H	NH_2	I
amino acid	acyl	NH_2	H
amino acid	acyl	NH_2	NH_2
amino acid	acyl	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH-methyl
amino acid	acyl	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH-acetyl
amino acid	acyl	NH_2	OH
amino acid	acyl	NH_2	OMe
amino acid	acyl	NH_2	OEt

R^2	R^3	X^1	Y
amino acid	acyl	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	O-acetyl
amino acid	acyl	NH_2	SH
amino acid	acyl	NH_2	SMe
amino acid	acyl	NH_2	SEt
amino acid	acyl	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	F
amino acid	acyl	NH_2	Cl
amino acid	acyl	NH_2	Br
amino acid	acyl	NH_2	I
acyl	H	OH	H
acyl	H	OH	NH_2
acyl	H	OH	NH-cyclopropyl
acyl	H	OH	NH-methyl
acyl	H	OH	NH-ethyl
acyl	H	OH	NH-acetyl
acyl	H	OH	OH
acyl	H	OH	OMe
acyl	H	OH	OEt
acyl	H	OH	O-cyclopropyl
acyl	H	OH	O-acetyl
acyl	H	OH	SH
acyl	H	OH	SMe
acyl	H	OH	SEt
acyl	H	OH	S-cyclopropyl
acyl	H	OH	F
acyl	H	OH	Cl
acyl	H	OH	Br
acyl	H	OH	I
acyl	acyl	OH	H
acyl	acyl	OH	NH_2
acyl	acyl	OH	NH-cyclopropyl
acyl	acyl	OH	NH-methyl
acyl	acyl	OH	NH-ethyl
acyl	acyl	OH	NH-acetyl
acyl	acyl	OH	OH
acyl	acyl	OH	OMe
acyl	acyl	OH	OEt
acyl	acyl	OH	O-cyclopropyl
acyl	acyl	OH	O-acetyl
acyl	acyl	OH	SH
acyl	acyl	OH	SMe
acyl	acyl	OH	SEt
acyl	acyl	OH	S-cyclopropyl
acyl	acyl	OH	F
acyl	acyl	OH	Cl
acyl	acyl	OH	Br

R^2	R^3	X^1	Y
acyl	acyl	OH	I
acyl	amino acid	OH	H
acyl	amino acid	OH	NH_2
acyl	amino acid	OH	NH-cyclopropyl
acyl	amino acid	OH	NH-methyl
acyl	amino acid	OH	NH-ethyl
acyl	amino acid	OH	NH-acetyl
acyl	amino acid	OH	OH
acyl	amino acid	OH	OMe
acyl	amino acid	OH	OEt
acyl	amino acid	OH	O-cyclopropyl
acyl	amino acid	OH	O-acetyl
acyl	amino acid	OH	SH
acyl	amino acid	OH	SMe
acyl	amino acid	OH	SEt
acyl	amino acid	OH	S-cyclopropyl
acyl	amino acid	OH	F
acyl	amino acid	OH	Cl
acyl	amino acid	OH	Br
acyl	amino acid	OH	I
H	acyl	OH	H
H	acyl	OH	NH_2
H	acyl	OH	NH-cyclopropyl
H	acyl	OH	NH-methyl
H	acyl	OH	NH-ethyl
H	acyl	OH	NH-acetyl
H	acyl	OH	OH
H	acyl	OH	OMe
H	acyl	OH	OEt
H	acyl	OH	O-cyclopropyl
H	acyl	OH	O-acetyl
H	acyl	OH	SH
H	acyl	OH	SMe
H	acyl	OH	SEt
H	acyl	OH	S-cyclopropyl
H	acyl	OH	F
H	acyl	OH	Cl
H	acyl	OH	Br
H	acyl	OH	I
H	amino acid	OH	H
H	amino acid	OH	NH_2
H	amino acid	OH	NH-cyclopropyl
H	amino acid	OH	NH-methyl
H	amino acid	OH	NH-ethyl
H	amino acid	OH	NH-acetyl
H	amino acid	OH	OH
H	amino acid	OH	OMe

R^2	R^3	X^1	Y
H	amino acid	OH	OEt
H	amino acid	OH	O-cyclopropyl
H	amino acid	OH	O-acetyl
H	amino acid	OH	SH
H	amino acid	OH	SMe
H	amino acid	OH	SEt
H	amino acid	OH	S-cyclopropyl
H	amino acid	OH	F
H	amino acid	OH	Cl
H	amino acid	OH	Br
H	amino acid	OH	I
amino acid	amino acid	OH	H
amino acid	amino acid	OH	NH_2
amino acid	amino acid	OH	NH-cyclopropyl
amino acid	amino acid	OH	NH-methyl
amino acid	amino acid	OH	NH-ethyl
amino acid	amino acid	OH	NH-acetyl
amino acid	amino acid	OH	OH
amino acid	amino acid	OH	OMe
amino acid	amino acid	OH	OEt
amino acid	amino acid	OH	O-cyclopropyl
amino acid	amino acid	OH	O-acetyl
amino acid	amino acid	OH	SH
amino acid	amino acid	OH	SMe
amino acid	amino acid	OH	SEt
amino acid	amino acid	OH	S-cyclopropyl
amino acid	amino acid	OH	F
amino acid	amino acid	OH	Cl
amino acid	amino acid	OH	Br
amino acid	amino acid	OH	I
amino acid	H	OH	H
amino acid	H	OH	NH_2
amino acid	H	OH	NH-cyclopropyl
amino acid	H	OH	NH-methyl
amino acid	H	OH	NH-ethyl
amino acid	H	OH	NH-acetyl
amino acid	H	OH	OH
amino acid	H	OH	OMe
amino acid	H	OH	OEt
amino acid	H	OH	O-cyclopropyl
amino acid	H	OH	O-acetyl
amino acid	H	OH	SH
amino acid	H	OH	SMe
amino acid	H	OH	SEt
amino acid	H	OH	S-cyclopropyl
amino acid	H	OH	F
amino acid	H	OH	Cl

R^2	R^3	X^1	Y
amino acid	H	OH	Br
amino acid	H	OH	I
amino acid	acyl	OH	H
amino acid	acyl	OH	NH_2
amino acid	acyl	OH	NH-cyclopropyl
amino acid	acyl	OH	NH-methyl
amino acid	acyl	OH	NH-ethyl
amino acid	acyl	OH	NH-acetyl
amino acid	acyl	OH	OH
amino acid	acyl	OH	OMe
amino acid	acyl	OH	OEt
amino acid	acyl	OH	O-cyclopropyl
amino acid	acyl	OH	O-acetyl
amino acid	acyl	OH	SH
amino acid	acyl	OH	SMe
amino acid	acyl	OH	SEt
amino acid	acyl	OH	S-cyclopropyl
amino acid	acyl	OH	F
amino acid	acyl	OH	Cl
amino acid	acyl	OH	Br
amino acid	acyl	OH	I
acyl	H	F	H
acyl	H	F	NH_2
acyl	H	F	NH-cyclopropyl
acyl	H	F	NH-methyl
acyl	H	F	NH-ethyl
acyl	H	F	NH-acetyl
acyl	H	F	OH
acyl	H	F	OMe
acyl	H	F	OEt
acyl	H	F	O-cyclopropyl
acyl	H	F	O-acetyl
acyl	H	F	SH
acyl	H	F	SMe
acyl	H	F	SEt
acyl	H	F	S-cyclopropyl
acyl	H	F	F
acyl	H	F	Cl
acyl	H	F	Br
acyl	H	F	I
acyl	acyl	F	H
acyl	acyl	F	NH_2
acyl	acyl	F	NH-cyclopropyl
acyl	acyl	F	NH-methyl
acyl	acyl	F	NH-ethyl
acyl	acyl	F	NH-acetyl
acyl	acyl	F	OH

R^2	R^3	X^1	Y
acyl	acyl	F	OMe
acyl	acyl	F	OEt
acyl	acyl	F	O-cyclopropyl
acyl	acyl	F	O-acetyl
acyl	acyl	F	SH
acyl	acyl	F	SMe
acyl	acyl	F	SEt
acyl	acyl	F	S-cyclopropyl
acyl	acyl	F	F
acyl	acyl	F	Cl
acyl	acyl	F	Br
acyl	acyl	F	I
acyl	amino acid	F	H
acyl	amino acid	F	NH_2
acyl	amino acid	F	NH-cyclopropyl
acyl	amino acid	F	NH-methyl
acyl	amino acid	F	NH-ethyl
acyl	amino acid	F	NH-acetyl
acyl	amino acid	F	OH
acyl	amino acid	F	OMe
acyl	amino acid	F	OEt
acyl	amino acid	F	O-cyclopropyl
acyl	amino acid	F	O-acetyl
acyl	amino acid	F	SH
acyl	amino acid	F	SMe
acyl	amino acid	F	SEt
acyl	amino acid	F	S-cyclopropyl
acyl	amino acid	F	F
acyl	amino acid	F	Cl
acyl	amino acid	F	Br
acyl	amino acid	F	I
H	acyl	F	H
H	acyl	F	NH_2
H	acyl	F	NH-cyclopropyl
H	acyl	F	NH-methyl
H	acyl	F	NH-ethyl
H	acyl	F	NH-acetyl
H	acyl	F	OH
H	acyl	F	OMe
H	acyl	F	OEt
H	acyl	F	O-cyclopropyl
H	acyl	F	O-acetyl
H	acyl	F	SH
H	acyl	F	SMe
H	acyl	F	SEt
H	acyl	F	S-cyclopropyl
H	acyl	F	F

R^2	R^3	X^1	Y
H	acyl	F	Cl
H	acyl	F	Br
H	acyl	F	I
H	amino acid	F	H
H	amino acid	F	NH_2
H	amino acid	F	NH-cyclopropyl
H	amino acid	F	NH-methyl
H	amino acid	F	NH-ethyl
H	amino acid	F	NH-acetyl
H	amino acid	F	OH
H	amino acid	F	OMe
H	amino acid	F	OEt
H	amino acid	F	O-cyclopropyl
H	amino acid	F	O-acetyl
H	amino acid	F	SH
H	amino acid	F	SMe
H	amino acid	F	SEt
H	amino acid	F	S-cyclopropyl
H	amino acid	F	F
H	amino acid	F	Cl
H	amino acid	F	Br
H	amino acid	F	I
amino acid	amino acid	F	H
amino acid	amino acid	F	NH_2
amino acid	amino acid	F	NH-cyclopropyl
amino acid	amino acid	F	NH-methyl
amino acid	amino acid	F	NH-ethyl
amino acid	amino acid	F	NH-acetyl
amino acid	amino acid	F	OH
amino acid	amino acid	F	OMe
amino acid	amino acid	F	OEt
amino acid	amino acid	F	O-cyclopropyl
amino acid	amino acid	F	O-acetyl
amino acid	amino acid	F	SH
amino acid	amino acid	F	SMe
amino acid	amino acid	F	SEt
amino acid	amino acid	F	S-cyclopropyl
amino acid	amino acid	F	F
amino acid	amino acid	F	Cl
amino acid	amino acid	F	Br
amino acid	amino acid	F	I
amino acid	H	F	H
amino acid	H	F	NH_2
amino acid	H	F	NH-cyclopropyl
amino acid	H	F	NH-methyl
amino acid	H	F	NH-ethyl
amino acid	H	F	NH-acetyl

R^2	R^3	X^1	Y
amino acid	H	F	OH
amino acid	H	F	OMe
amino acid	H	F	OEt
amino acid	H	F	O-cyclopropyl
amino acid	H	F	O-acetyl
amino acid	H	F	SH
amino acid	H	F	SMe
amino acid	H	F	SEt
amino acid	H	F	S-cyclopropyl
amino acid	H	F	F
amino acid	H	F	Cl
amino acid	H	F	Br
amino acid	H	F	I
amino acid	acyl	F	H
amino acid	acyl	F	NH_2
amino acid	acyl	F	NH-cyclopropyl
amino acid	acyl	F	NH-methyl
amino acid	acyl	F	NH-ethyl
amino acid	acyl	F	NH-acetyl
amino acid	acyl	F	OH
amino acid	acyl	F	OMe
amino acid	acyl	F	OEt
amino acid	acyl	F	O-cyclopropyl
amino acid	acyl	F	O-acetyl
amino acid	acyl	F	SH
amino acid	acyl	F	SMe
amino acid	acyl	F	SEt
amino acid	acyl	F	S-cyclopropyl
amino acid	acyl	F	F
amino acid	acyl	F	Cl
amino acid	acyl	F	Br
amino acid	acyl	F	I
acyl	H	I	H
acyl	H	I	NH_2
acyl	H	I	NH-cyclopropyl
acyl	H	I	NH-methyl
acyl	H	I	NH-ethyl
acyl	H	I	NH-acetyl
acyl	H	I	OH
acyl	H	I	OMe
acyl	H	I	OEt
acyl	H	I	O-cyclopropyl
acyl	H	I	O-acetyl
acyl	H	I	SH
acyl	H	I	SMe
acyl	H	I	SEt
acyl	H	I	S-cyclopropyl

R^2	R^3	X^1	Y
acyl	H	I	F
acyl	H	I	Cl
acyl	H	I	Br
acyl	H	I	I
acyl	acyl	I	H
acyl	acyl	I	NH_2
acyl	acyl	I	NH-cyclopropyl
acyl	acyl	I	NH-methyl
acyl	acyl	I	NH-ethyl
acyl	acyl	I	NH-acetyl
acyl	acyl	I	OH
acyl	acyl	I	OMe
acyl	acyl	I	OEt
acyl	acyl	I	O-cyclopropyl
acyl	acyl	I	O-acetyl
acyl	acyl	I	SH
acyl	acyl	I	SMe
acyl	acyl	I	SEt
acyl	acyl	I	S-cyclopropyl
acyl	acyl	I	F
acyl	acyl	I	Cl
acyl	acyl	I	Br
acyl	acyl	I	I
acyl	amino acid	I	H
acyl	amino acid	I	NH_2
acyl	amino acid	I	NH-cyclopropyl
acyl	amino acid	I	NH-methyl
acyl	amino acid	I	NH-ethyl
acyl	amino acid	I	NH-acetyl
acyl	amino acid	I	OH
acyl	amino acid	I	OMe
acyl	amino acid	I	OEt
acyl	amino acid	I	O-cyclopropyl
acyl	amino acid	I	O-acetyl
acyl	amino acid	I	SH
acyl	amino acid	I	SMe
acyl	amino acid	I	SEt
acyl	amino acid	I	S-cyclopropyl
acyl	amino acid	I	F
acyl	amino acid	I	Cl
acyl	amino acid	I	Br
acyl	amino acid	I	I
H	acyl	I	H
H	acyl	I	NH_2
H	acyl	I	NH-cyclopropyl
H	acyl	I	NH-methyl
H	acyl	I	NH-ethyl

R^2	R^3	X^1	Y
H	acyl	I	NH-acetyl
H	acyl	I	OH
H	acyl	I	OMe
H	acyl	I	OEt
H	acyl	I	O-cyclopropyl
H	acyl	I	O-acetyl
H	acyl	I	SH
H	acyl	I	SMe
H	acyl	I	SEt
H	acyl	I	S-cyclopropyl
H	acyl	I	F
H	acyl	I	Cl
H	acyl	I	Br
H	acyl	I	I
H	amino acid	I	H
H	amino acid	I	NH_2
H	amino acid	I	NH-cyclopropyl
H	amino acid	I	NH-methyl
H	amino acid	I	NH-ethyl
H	amino acid	I	NH-acetyl
H	amino acid	I	OH
H	amino acid	I	OMe
H	amino acid	I	OEt
H	amino acid	I	O-cyclopropyl
H	amino acid	I	O-acetyl
H	amino acid	I	SH
H	amino acid	I	SMe
H	amino acid	I	SEt
H	amino acid	I	S-cyclopropyl
H	amino acid	I	F
H	amino acid	I	Cl
H	amino acid	I	Br
H	amino acid	I	I
amino acid	amino acid	I	H
amino acid	amino acid	I	NH_2
amino acid	amino acid	I	NH-cyclopropyl
amino acid	amino acid	I	NH-methyl
amino acid	amino acid	I	NH-ethyl
amino acid	amino acid	I	NH-acetyl
amino acid	amino acid	I	OH
amino acid	amino acid	I	OMe
amino acid	amino acid	I	OEt
amino acid	amino acid	I	O-cyclopropyl
amino acid	amino acid	I	O-acetyl
amino acid	amino acid	I	SH
amino acid	amino acid	I	SMe
amino acid	amino acid	I	SEt

R^2	R^3	X^1	Y
amino acid	amino acid	I	S-cyclopropyl
amino acid	amino acid	I	F
amino acid	amino acid	I	Cl
amino acid	amino acid	I	Br
amino acid	amino acid	I	I
amino acid	H	I	H
amino acid	H	I	NH_2
amino acid	H	I	NH-cyclopropyl
amino acid	H	I	NH-methyl
amino acid	H	I	NH-ethyl
amino acid	H	I	NH-acetyl
amino acid	H	I	OH
amino acid	H	I	OMe
amino acid	H	I	OEt
amino acid	H	I	O-cyclopropyl
amino acid	H	I	O-acetyl
amino acid	H	I	SH
amino acid	H	I	SMe
amino acid	H	I	SEt
amino acid	H	I	S-cyclopropyl
amino acid	H	I	F
amino acid	H	I	Cl
amino acid	H	I	Br
amino acid	H	I	I
amino acid	acyl	I	H
amino acid	acyl	I	NH_2
amino acid	acyl	I	NH-cyclopropyl
amino acid	acyl	I	NH-methyl
amino acid	acyl	I	NH-ethyl
amino acid	acyl	I	NH-acetyl
amino acid	acyl	I	OH
amino acid	acyl	I	OMe
amino acid	acyl	I	OEt
amino acid	acyl	I	O-cyclopropyl
amino acid	acyl	I	O-acetyl
amino acid	acyl	I	SH
amino acid	acyl	I	SMe
amino acid	acyl	I	SEt
amino acid	acyl	I	S-cyclopropyl
amino acid	acyl	I	F
amino acid	acyl	I	Cl
amino acid	acyl	I	Br
amino acid	acyl	I	I

Table 20

R^2	R^3	X^1	X^2	Y
acyl	H	H	H	H
acyl	H	H	H	NH_2
acyl	H	H	H	NH-cyclopropyl
acyl	H	H	H	NH-methyl
acyl	H	H	H	NH-ethyl
acyl	H	H	H	NH-acetyl
acyl	H	H	H	OH
acyl	H	H	H	OMe
acyl	H	H	H	OEt
acyl	H	H	H	O-cyclopropyl
acyl	H	H	H	O-acetyl
acyl	H	H	H	SH
acyl	H	H	H	SMe
acyl	H	H	H	SEt
acyl	H	H	H	S-cyclopropyl
acyl	H	H	H	F
acyl	H	H	H	Cl
acyl	H	H	H	Br
acyl	H	H	H	I
acyl	acyl	H	H	H
acyl	acyl	H	H	NH_2
acyl	acyl	H	H	NH-cyclopropyl
acyl	acyl	H	H	NH-methyl
acyl	acyl	H	H	NH-ethyl
acyl	acyl	H	H	NH-acetyl
acyl	acyl	H	H	OH
acyl	acyl	H	H	OMe
acyl	acyl	H	H	OEt
acyl	acyl	H	H	O-cyclopropyl
acyl	acyl	H	H	O-acetyl
acyl	acyl	H	H	SH
acyl	acyl	H	H	SMe
acyl	acyl	H	H	SEt
acyl	acyl	H	H	S-cyclopropyl
acyl	acyl	H	H	F
acyl	acyl	H	H	Cl
acyl	acyl	H	H	Br
acyl	acyl	H	H	I
acyl	amino acid	H	H	H
acyl	amino acid	H	H	NH_2
acyl	amino acid	H	H	NH-cyclopropyl
acyl	amino acid	H	H	NH-methyl
acyl	amino acid	H	H	NH-ethyl
acyl	amino acid	H	H	NH-acetyl
acyl	amino acid	H	H	OH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	H	OMe
acyl	amino acid	H	H	OEt
acyl	amino acid	H	H	O-cyclopropyl
acyl	amino acid	H	H	O-acetyl
acyl	amino acid	H	H	SH
acyl	amino acid	H	H	SMe
acyl	amino acid	H	H	SEt
acyl	amino acid	H	H	S-cyclopropyl
acyl	amino acid	H	H	F
acyl	amino acid	H	H	Cl
acyl	amino acid	H	H	Br
acyl	amino acid	H	H	I
H	acyl	H	H	H
H	acyl	H	H	NH_2
H	acyl	H	H	NH-cyclopropyl
H	acyl	H	H	NH-methyl
H	acyl	H	H	NH-ethyl
H	acyl	H	H	NH-acetyl
H	acyl	H	H	OH
H	acyl	H	H	OMe
H	acyl	H	H	OEt
H	acyl	H	H	O-cyclopropyl
H	acyl	H	H	O-acetyl
H	acyl	H	H	SH
H	acyl	H	H	SMe
H	acyl	H	H	SEt
H	acyl	H	H	S-cyclopropyl
H	acyl	H	H	F
H	acyl	H	H	Cl
H	acyl	H	H	Br
H	acyl	H	H	I
H	amino acid	H	H	H
H	amino acid	H	H	NH_2
H	amino acid	H	H	NH-cyclopropyl
H	amino acid	H	H	NH-methyl
H	amino acid	H	H	NH-ethyl
H	amino acid	H	H	NH-acetyl
H	amino acid	H	H	OH
H	amino acid	H	H	OMe
H	amino acid	H	H	OEt
H	amino acid	H	H	O-cyclopropyl
H	amino acid	H	H	O-acetyl
H	amino acid	H	H	SH
H	amino acid	H	H	SMe
H	amino acid	H	H	SEt
H	amino acid	H	H	S-cyclopropyl
H	amino acid	H	H	F

R^2	R^3	X^1	X^2	Y
H	amino acid	H	H	Cl
H	amino acid	H	H	Br
H	amino acid	H	H	I
amino acid	amino acid	H	H	H
amino acid	amino acid	H	H	NH_2
amino acid	amino acid	H	H	NH-cyclopropyl
amino acid	amino acid	H	H	NH-methyl
amino acid	amino acid	H	H	NH-ethyl
amino acid	amino acid	H	H	NH-acetyl
amino acid	amino acid	H	H	OH
amino acid	amino acid	H	H	OMe
amino acid	amino acid	H	H	OEt
amino acid	amino acid	H	H	O-cyclopropyl
amino acid	amino acid	H	H	O-acetyl
amino acid	amino acid	H	H	SH
amino acid	amino acid	H	H	SMe
amino acid	amino acid	H	H	SEt
amino acid	amino acid	H	H	S-cyclopropyl
amino acid	amino acid	H	H	F
amino acid	amino acid	H	H	Cl
amino acid	amino acid	H	H	Br
amino acid	amino acid	H	H	I
amino acid	H	H	H	H
amino acid	H	H	H	NH_2
amino acid	H	H	H	NH-cyclopropyl
amino acid	H	H	H	NH-methyl
amino acid	H	H	H	NH-ethyl
amino acid	H	H	H	NH-acetyl
amino acid	H	H	H	OH
amino acid	H	H	H	OMe
amino acid	H	H	H	OEt
amino acid	H	H	H	O-cyclopropyl
amino acid	H	H	H	O-acetyl
amino acid	H	H	H	SH
amino acid	H	H	H	SMe
amino acid	H	H	H	SEt
amino acid	H	H	H	S-cyclopropyl
amino acid	H	H	H	F
amino acid	H	H	H	Cl
amino acid	H	H	H	Br
amino acid	H	H	H	I
amino acid	acyl	H	H	H
amino acid	acyl	H	H	NH_2
amino acid	acyl	H	H	NH-cyclopropyl
amino acid	acyl	H	H	NH-methyl
amino acid	acyl	H	H	NH-ethyl
amino acid	acyl	H	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	H	OH
amino acid	acyl	H	H	OMe
amino acid	acyl	H	H	OEt
amino acid	acyl	H	H	O-cyclopropyl
amino acid	acyl	H	H	O-acetyl
amino acid	acyl	H	H	SH
amino acid	acyl	H	H	SMe
amino acid	acyl	H	H	SEt
amino acid	acyl	H	H	S-cyclopropyl
amino acid	acyl	H	H	F
amino acid	acyl	H	H	Cl
amino acid	acyl	H	H	Br
amino acid	acyl	H	H	I
acyl	H	F	H	H
acyl	H	F	H	NH_2
acyl	H	F	H	NH-cyclopropyl
acyl	H	F	H	NH-methyl
acyl	H	F	H	NH-ethyl
acyl	H	F	H	NH-acetyl
acyl	H	F	H	OH
acyl	H	F	H	OMe
acyl	H	F	H	OEt
acyl	H	F	H	O-cyclopropyl
acyl	H	F	H	O-acetyl
acyl	H	F	H	SH
acyl	H	F	H	SMe
acyl	H	F	H	SEt
acyl	H	F	H	S-cyclopropyl
acyl	H	F	H	F
acyl	H	F	H	Cl
acyl	H	F	H	Br
acyl	H	F	H	I
acyl	acyl	F	H	H
acyl	acyl	F	H	NH_2
acyl	acyl	F	H	NH-cyclopropyl
acyl	acyl	F	H	NH-methyl
acyl	acyl	F	H	NH-ethyl
acyl	acyl	F	H	NH-acetyl
acyl	acyl	F	H	OH
acyl	acyl	F	H	OMe
acyl	acyl	F	H	OEt
acyl	acyl	F	H	O-cyclopropyl
acyl	acyl	F	H	O-acetyl
acyl	acyl	F	H	SH
acyl	acyl	F	H	SMe
acyl	acyl	F	H	SEt
acyl	acyl	F	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	H	F
acyl	acyl	F	H	Cl
acyl	acyl	F	H	Br
acyl	acyl	F	H	I
acyl	amino acid	F	H	H
acyl	amino acid	F	H	NH_2
acyl	amino acid	F	H	NH-cyclopropyl
acyl	amino acid	F	H	NH-methyl
acyl	amino acid	F	H	NH-ethyl
acyl	amino acid	F	H	NH-acetyl
acyl	amino acid	F	H	OH
acyl	amino acid	F	H	OMe
acyl	amino acid	F	H	OEt
acyl	amino acid	F	H	O-cyclopropyl
acyl	amino acid	F	H	O-acetyl
acyl	amino acid	F	H	SH
acyl	amino acid	F	H	SMe
acyl	amino acid	F	H	SEt
acyl	amino acid	F	H	S-cyclopropyl
acyl	amino acid	F	H	F
acyl	amino acid	F	H	Cl
acyl	amino acid	F	H	Br
acyl	amino acid	F	H	I
H	acyl	F	H	H
H	acyl	F	H	NH_2
H	acyl	F	H	NH-cyclopropyl
H	acyl	F	H	NH-methyl
H	acyl	F	H	NH-ethyl
H	acyl	F	H	NH-acetyl
H	acyl	F	H	OH
H	acyl	F	H	OMe
H	acyl	F	H	OEt
H	acyl	F	H	O-cyclopropyl
H	acyl	F	H	O-acetyl
H	acyl	F	H	SH
H	acyl	F	H	SMe
H	acyl	F	H	SEt
H	acyl	F	H	S-cyclopropyl
H	acyl	F	H	F
H	acyl	F	H	Cl
H	acyl	F	H	Br
H	acyl	F	H	I
H	amino acid	F	H	H
H	amino acid	F	H	NH_2
H	amino acid	F	H	NH-cyclopropyl
H	amino acid	F	H	NH-methyl
H	amino acid	F	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	H	NH-acetyl
H	amino acid	F	H	OH
H	amino acid	F	H	OMe
H	amino acid	F	H	OEt
H	amino acid	F	H	O-cyclopropyl
H	amino acid	F	H	O-acetyl
H	amino acid	F	H	SH
H	amino acid	F	H	SMe
H	amino acid	F	H	SEt
H	amino acid	F	H	S-cyclopropyl
H	amino acid	F	H	F
H	amino acid	F	H	Cl
H	amino acid	F	H	Br
H	amino acid	F	H	I
amino acid	amino acid	F	H	H
amino acid	amino acid	F	H	NH_2
amino acid	amino acid	F	H	NH-cyclopropyl
amino acid	amino acid	F	H	NH-methyl
amino acid	amino acid	F	H	NH-ethyl
amino acid	amino acid	F	H	NH-acetyl
amino acid	amino acid	F	H	OH
amino acid	amino acid	F	H	OMe
amino acid	amino acid	F	H	OEt
amino acid	amino acid	F	H	O-cyclopropyl
amino acid	amino acid	F	H	O-acetyl
amino acid	amino acid	F	H	SH
amino acid	amino acid	F	H	SMe
amino acid	amino acid	F	H	SEt
amino acid	amino acid	F	H	S-cyclopropyl
amino acid	amino acid	F	H	F
amino acid	amino acid	F	H	Cl
amino acid	amino acid	F	H	Br
amino acid	amino acid	F	H	I
amino acid	H	F	H	H
amino acid	H	F	H	NH_2
amino acid	H	F	H	NH-cyclopropyl
amino acid	H	F	H	NH-methyl
amino acid	H	F	H	NH-ethyl
amino acid	H	F	H	NH-acetyl
amino acid	H	F	H	OH
amino acid	H	F	H	OMe
amino acid	H	F	H	OEt
amino acid	H	F	H	O-cyclopropyl
amino acid	H	F	H	O-acetyl
amino acid	H	F	H	SH
amino acid	H	F	H	SMe
amino acid	H	F	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	H	F	H	S-cyclopropyl
amino acid	H	F	H	F
amino acid	H	F	H	Cl
amino acid	H	F	H	Br
amino acid	H	F	H	I
amino acid	acyl	F	H	H
amino acid	acyl	F	H	NH_2
amino acid	acyl	F	H	NH-cyclopropyl
amino acid	acyl	F	H	NH-methyl
amino acid	acyl	F	H	NH-ethyl
amino acid	acyl	F	H	NH-acetyl
amino acid	acyl	F	H	OH
amino acid	acyl	F	H	OMe
amino acid	acyl	F	H	OEt
amino acid	acyl	F	H	O-cyclopropyl
amino acid	acyl	F	H	O-acetyl
amino acid	acyl	F	H	SH
amino acid	acyl	F	H	SMe
amino acid	acyl	F	H	SEt
amino acid	acyl	F	H	S-cyclopropyl
amino acid	acyl	F	H	F
amino acid	acyl	F	H	Cl
amino acid	acyl	F	H	Br
amino acid	acyl	F	H	I
acyl	H	H	F	H
acyl	H	H	F	NH_2
acyl	H	H	F	NH-cyclopropyl
acyl	H	H	F	NH-methyl
acyl	H	H	F	NH-ethyl
acyl	H	H	F	NH-acetyl
acyl	H	H	F	OH
acyl	H	H	F	OMe
acyl	H	H	F	OEt
acyl	H	H	F	O-cyclopropyl
acyl	H	H	F	O-acetyl
acyl	H	H	F	SH
acyl	H	H	F	SMe
acyl	H	H	F	SEt
acyl	H	H	F	S-cyclopropyl
acyl	H	H	F	F
acyl	H	H	F	Cl
acyl	H	H	F	Br
acyl	H	H	F	I
acyl	acyl	H	F	H
acyl	acyl	H	F	NH_2
acyl	acyl	H	F	NH-cyclopropyl
acyl	acyl	H	F	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	F	NH-ethyl
acyl	acyl	H	F	NH-acetyl
acyl	acyl	H	F	OH
acyl	acyl	H	F	OMe
acyl	acyl	H	F	OEt
acyl	acyl	H	F	O-cyclopropyl
acyl	acyl	H	F	O-acetyl
acyl	acyl	H	F	SH
acyl	acyl	H	F	SMe
acyl	acyl	H	F	SEt
acyl	acyl	H	F	S-cyclopropyl
acyl	acyl	H	F	F
acyl	acyl	H	F	Cl
acyl	acyl	H	F	Br
acyl	acyl	H	F	I
acyl	amino acid	H	F	H
acyl	amino acid	H	F	NH_2
acyl	amino acid	H	F	NH-cyclopropyl
acyl	amino acid	H	F	NH-methyl
acyl	amino acid	H	F	NH-ethyl
acyl	amino acid	H	F	NH-acetyl
acyl	amino acid	H	F	OH
acyl	amino acid	H	F	OMe
acyl	amino acid	H	F	OEt
acyl	amino acid	H	F	O-cyclopropyl
acyl	amino acid	H	F	O-acetyl
acyl	amino acid	H	F	SH
acyl	amino acid	H	F	SMe
acyl	amino acid	H	F	SEt
acyl	amino acid	H	F	S-cyclopropyl
acyl	amino acid	H	F	F
acyl	amino acid	H	F	Cl
acyl	amino acid	H	F	Br
acyl	amino acid	H	F	I
H	acyl	H	F	H
H	acyl	H	F	NH_2
H	acyl	H	F	NH-cyclopropyl
H	acyl	H	F	NH-methyl
H	acyl	H	F	NH-ethyl
H	acyl	H	F	NH-acetyl
H	acyl	H	F	OH
H	acyl	H	F	OMe
H	acyl	H	F	OEt
H	acyl	H	F	O-cyclopropyl
H	acyl	H	F	O-acetyl
H	acyl	H	F	SH
H	acyl	H	F	SMe

R^2	R^3	X^1	X^2	Y
H	acyl	H	F	SEt
H	acyl	H	F	S-cyclopropyl
H	acyl	H	F	F
H	acyl	H	F	Cl
H	acyl	H	F	Br
H	acyl	H	F	I
H	amino acid	H	F	H
H	amino acid	H	F	NH_2
H	amino acid	H	F	NH-cyclopropyl
H	amino acid	H	F	NH-methyl
H	amino acid	H	F	NH-ethyl
H	amino acid	H	F	NH-acetyl
H	amino acid	H	F	OH
H	amino acid	H	F	OMe
H	amino acid	H	F	OEt
H	amino acid	H	F	O-cyclopropyl
H	amino acid	H	F	O-acetyl
H	amino acid	H	F	SH
H	amino acid	H	F	SMe
H	amino acid	H	F	SEt
H	amino acid	H	F	S-cyclopropyl
H	amino acid	H	F	F
H	amino acid	H	F	Cl
H	amino acid	H	F	Br
H	amino acid	H	F	I
amino acid	amino acid	H	F	H
amino acid	amino acid	H	F	NH_2
amino acid	amino acid	H	F	NH-cyclopropyl
amino acid	amino acid	H	F	NH-methyl
amino acid	amino acid	H	F	NH-ethyl
amino acid	amino acid	H	F	NH-acetyl
amino acid	amino acid	H	F	OH
amino acid	amino acid	H	F	OMe
amino acid	amino acid	H	F	OEt
amino acid	amino acid	H	F	O-cyclopropyl
amino acid	amino acid	H	F	O-acetyl
amino acid	amino acid	H	F	SH
amino acid	amino acid	H	F	SMe
amino acid	amino acid	H	F	SEt
amino acid	amino acid	H	F	S-cyclopropyl
amino acid	amino acid	H	F	F
amino acid	amino acid	H	F	Cl
amino acid	amino acid	H	F	Br
amino acid	amino acid	H	F	I
amino acid	H	H	F	H
amino acid	H	H	F	NH_2
amino acid	H	H	F	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	F	NH-methyl
amino acid	H	H	F	NH-ethyl
amino acid	H	H	F	NH-acetyl
amino acid	H	H	F	OH
amino acid	H	H	F	OMe
amino acid	H	H	F	OEt
amino acid	H	H	F	O-cyclopropyl
amino acid	H	H	F	O-acetyl
amino acid	H	H	F	SH
amino acid	H	H	F	SMe
amino acid	H	H	F	SEt
amino acid	H	H	F	S-cyclopropyl
amino acid	H	H	F	F
amino acid	H	H	F	Cl
amino acid	H	H	F	Br
amino acid	H	H	F	I
amino acid	acyl	H	F	H
amino acid	acyl	H	F	NH_2
amino acid	acyl	H	F	NH-cyclopropyl
amino acid	acyl	H	F	NH-methyl
amino acid	acyl	H	F	NH-ethyl
amino acid	acyl	H	F	NH-acetyl
amino acid	acyl	H	F	OH
amino acid	acyl	H	F	OMe
amino acid	acyl	H	F	OEt
amino acid	acyl	H	F	O-cyclopropyl
amino acid	acyl	H	F	O-acetyl
amino acid	acyl	H	F	SH
amino acid	acyl	H	F	SMe
amino acid	acyl	H	F	SEt
amino acid	acyl	H	F	S-cyclopropyl
amino acid	acyl	H	F	F
amino acid	acyl	H	F	Cl
amino acid	acyl	H	F	Br
amino acid	acyl	H	F	I
acyl	H	NH_2	H	H
acyl	H	NH_2	H	NH_2
acyl	H	NH_2	H	NH-cyclopropyl
acyl	H	NH_2	H	NH-methyl
acyl	H	NH_2	H	NH-ethyl
acyl	H	NH_2	H	NH-acetyl
acyl	H	NH_2	H	OH
acyl	H	NH_2	H	OMe
acyl	H	NH_2	H	OEt
acyl	H	NH_2	H	O-cyclopropyl
acyl	H	NH_2	H	O-acetyl
acyl	H	NH_2	H	SH

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	H	SMe
acyl	H	NH_2	H	SEt
acyl	H	NH_2	H	S-cyclopropyl
acyl	H	NH_2	H	F
acyl	H	NH_2	H	Cl
acyl	H	NH_2	H	Br
acyl	H	NH_2	H	I
acyl	acyl	NH_2	H	H
acyl	acyl	NH_2	H	NH_2
acyl	acyl	NH_2	H	NH-cyclopropyl
acyl	acyl	NH_2	H	NH-methyl
acyl	acyl	NH_2	H	NH-ethyl
acyl	acyl	NH_2	H	NH-acetyl
acyl	acyl	NH_2	H	OH
acyl	acyl	NH_2	H	OMe
acyl	acyl	NH_2	H	OEt
acyl	acyl	NH_2	H	O-cyclopropyl
acyl	acyl	NH_2	H	O-acetyl
acyl	acyl	NH_2	H	SH
acyl	acyl	NH_2	H	SMe
acyl	acyl	NH_2	H	SEt
acyl	acyl	NH_2	H	S-cyclopropyl
acyl	acyl	NH_2	H	F
acyl	acyl	NH_2	H	Cl
acyl	acyl	NH_2	H	Br
acyl	acyl	NH_2	H	I
acyl	amino acid	NH_2	H	H
acyl	amino acid	NH_2	H	NH_2
acyl	amino acid	NH_2	H	NH-cyclopropyl
acyl	amino acid	NH_2	H	NH-methyl
acyl	amino acid	NH_2	H	NH-ethyl
acyl	amino acid	NH_2	H	NH-acetyl
acyl	amino acid	NH_2	H	OH
acyl	amino acid	NH_2	H	OMe
acyl	amino acid	NH_2	H	OEt
acyl	amino acid	NH_2	H	O-cyclopropyl
acyl	amino acid	NH_2	H	O-acetyl
acyl	amino acid	NH_2	H	SH
acyl	amino acid	NH_2	H	SMe
acyl	amino acid	NH_2	H	SEt
acyl	amino acid	NH_2	H	S-cyclopropyl
acyl	amino acid	NH_2	H	F
acyl	amino acid	NH_2	H	Cl
acyl	amino acid	NH_2	H	Br
acyl	amino acid	NH_2	H	I
H	acyl	NH_2	H	H
H	acyl	NH_2	H	NH_2

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	H	NH-cyclopropyl
H	acyl	NH_2	H	NH-methyl
H	acyl	NH_2	H	NH-ethyl
H	acyl	NH_2	H	NH-acetyl
H	acyl	NH_2	H	OH
H	acyl	NH_2	H	OMe
H	acyl	NH_2	H	OEt
H	acyl	NH_2	H	O-cyclopropyl
H	acyl	NH_2	H	O-acetyl
H	acyl	NH_2	H	SH
H	acyl	NH_2	H	SMe
H	acyl	NH_2	H	SEt
H	acyl	NH_2	H	S-cyclopropyl
H	acyl	NH_2	H	F
H	acyl	NH_2	H	Cl
H	acyl	NH_2	H	Br
H	acyl	NH_2	H	I
H	amino acid	NH_2	H	H
H	amino acid	NH_2	H	NH_2
H	amino acid	NH_2	H	NH-cyclopropyl
H	amino acid	NH_2	H	NH-methyl
H	amino acid	NH_2	H	NH-ethyl
H	amino acid	NH_2	H	NH-acetyl
H	amino acid	NH_2	H	OH
H	amino acid	NH_2	H	OMe
H	amino acid	NH_2	H	OEt
H	amino acid	NH_2	H	O-cyclopropyl
H	amino acid	NH_2	H	O-acetyl
H	amino acid	NH_2	H	SH
H	amino acid	NH_2	H	SMe
H	amino acid	NH_2	H	SEt
H	amino acid	NH_2	H	S-cyclopropyl
H	amino acid	NH_2	H	F
H	amino acid	NH_2	H	Cl
H	amino acid	NH_2	H	Br
H	amino acid	NH_2	H	I
amino acid	amino acid	NH_2	H	H
amino acid	amino acid	NH_2	H	NH_2
amino acid	amino acid	NH_2	H	NH-cyclopropyl
amino acid	amino acid	NH_2	H	NH-methyl
amino acid	amino acid	NH_2	H	NH-ethyl
amino acid	amino acid	NH_2	H	NH-acetyl
amino acid	amino acid	NH_2	H	OH
amino acid	amino acid	NH_2	H	OMe
amino acid	amino acid	NH_2	H	OEt
amino acid	amino acid	NH_2	H	O-cyclopropyl
amino acid	amino acid	NH_2	H	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	H	SH
amino acid	amino acid	NH_2	H	SMe
amino acid	amino acid	NH_2	H	SEt
amino acid	amino acid	NH_2	H	S-cyclopropyl
amino acid	amino acid	NH_2	H	F
amino acid	amino acid	NH_2	H	Cl
amino acid	amino acid	NH_2	H	Br
amino acid	amino acid	NH_2	H	I
amino acid	H	NH_2	H	H
amino acid	H	NH_2	H	NH_2
amino acid	H	NH_2	H	NH-cyclopropyl
amino acid	H	NH_2	H	NH-methyl
amino acid	H	NH_2	H	NH-ethyl
amino acid	H	NH_2	H	NH-acetyl
amino acid	H	NH_2	H	OH
amino acid	H	NH_2	H	OMe
amino acid	H	NH_2	H	OEt
amino acid	H	NH_2	H	O-cyclopropyl
amino acid	H	NH_2	H	O-acetyl
amino acid	H	NH_2	H	SH
amino acid	H	NH_2	H	SMe
amino acid	H	NH_2	H	SEt
amino acid	H	NH_2	H	S-cyclopropyl
amino acid	H	NH_2	H	F
amino acid	H	NH_2	H	Cl
amino acid	H	NH_2	H	Br
amino acid	H	NH_2	H	I
amino acid	acyl	NH_2	H	H
amino acid	acyl	NH_2	H	NH_2
amino acid	acyl	NH_2	H	NH-cyclopropyl
amino acid	acyl	NH_2	H	NH-methyl
amino acid	acyl	NH_2	H	NH-ethyl
amino acid	acyl	NH_2	H	NH-acetyl
amino acid	acyl	NH_2	H	OH
amino acid	acyl	NH_2	H	OMe
amino acid	acyl	NH_2	H	OEt
amino acid	acyl	NH_2	H	O-cyclopropyl
amino acid	acyl	NH_2	H	O-acetyl
amino acid	acyl	NH_2	H	SH
amino acid	acyl	NH_2	H	SMe
amino acid	acyl	NH_2	H	SEt
amino acid	acyl	NH_2	H	S-cyclopropyl
amino acid	acyl	NH_2	H	F
amino acid	acyl	NH_2	H	Cl
amino acid	acyl	NH_2	H	Br
amino acid	acyl	NH_2	H	I
acyl	H	H	NH_2	H

R^2	R^3	X^1	X^2	Y
acyl	H	H	NH_2	NH_2
acyl	H	H	NH_2	NH-cyclopropyl
acyl	H	H	NH_2	NH-methyl
acyl	H	H	NH_2	NH-ethyl
acyl	H	H	NH_2	NH-acetyl
acyl	H	H	NH_2	OH
acyl	H	H	NH_2	OMe
acyl	H	H	NH_2	OEt
acyl	H	H	NH_2	O-cyclopropyl
acyl	H	H	NH_2	O-acetyl
acyl	H	H	NH_2	SH
acyl	H	H	NH_2	SMe
acyl	H	H	NH_2	SEt
acyl	H	H	NH_2	S-cyclopropyl
acyl	H	H	NH_2	F
acyl	H	H	NH_2	Cl
acyl	H	H	NH_2	Br
acyl	H	H	NH_2	I
acyl	acyl	H	NH_2	H
acyl	acyl	H	NH_2	NH_2
acyl	acyl	H	NH_2	NH-cyclopropyl
acyl	acyl	H	NH_2	NH-methyl
acyl	acyl	H	NH_2	NH-ethyl
acyl	acyl	H	NH_2	NH-acetyl
acyl	acyl	H	NH_2	OH
acyl	acyl	H	NH_2	OMe
acyl	acyl	H	NH_2	OEt
acyl	acyl	H	NH_2	O-cyclopropyl
acyl	acyl	H	NH_2	O-acetyl
acyl	acyl	H	NH_2	SH
acyl	acyl	H	NH_2	SMe
acyl	acyl	H	NH_2	SEt
acyl	acyl	H	NH_2	S-cyclopropyl
acyl	acyl	H	NH_2	F
acyl	acyl	H	NH_2	Cl
acyl	acyl	H	NH_2	Br
acyl	acyl	H	NH_2	I
acyl	amino acid	H	NH_2	H
acyl	amino acid	H	NH_2	NH_2
acyl	amino acid	H	NH_2	NH-cyclopropyl
acyl	amino acid	H	NH_2	NH-methyl
acyl	amino acid	H	NH_2	NH-ethyl
acyl	amino acid	H	NH_2	NH-acetyl
acyl	amino acid	H	NH_2	OH
acyl	amino acid	H	NH_2	OMe
acyl	amino acid	H	NH_2	OEt
acyl	amino acid	H	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	NH_2	O-acetyl
acyl	amino acid	H	NH_2	SH
acyl	amino acid	H	NH_2	SMe
acyl	amino acid	H	NH_2	SEt
acyl	amino acid	H	NH_2	S-cyclopropyl
acyl	amino acid	H	NH_2	F
acyl	amino acid	H	NH_2	Cl
acyl	amino acid	H	NH_2	Br
acyl	amino acid	H	NH_2	I
H	acyl	H	NH_2	H
H	acyl	H	NH_2	NH_2
H	acyl	H	NH_2	NH-cyclopropyl
H	acyl	H	NH_2	NH-methyl
H	acyl	H	NH_2	NH-ethyl
H	acyl	H	NH_2	NH-acetyl
H	acyl	H	NH_2	OH
H	acyl	H	NH_2	OMe
H	acyl	H	NH_2	OEt
H	acyl	H	NH_2	O-cyclopropyl
H	acyl	H	NH_2	O-acetyl
H	acyl	H	NH_2	SH
H	acyl	H	NH_2	SMe
H	acyl	H	NH_2	SEt
H	acyl	H	NH_2	S-cyclopropyl
H	acyl	H	NH_2	F
H	acyl	H	NH_2	Cl
H	acyl	H	NH_2	Br
H	acyl	H	NH_2	I
H	amino acid	H	NH_2	H
H	amino acid	H	NH_2	NH_2
H	amino acid	H	NH_2	NH-cyclopropyl
H	amino acid	H	NH_2	NH-methyl
H	amino acid	H	NH_2	NH-ethyl
H	amino acid	H	NH_2	NH-acetyl
H	amino acid	H	NH_2	OH
H	amino acid	H	NH_2	OMe
H	amino acid	H	NH_2	OEt
H	amino acid	H	NH_2	O-cyclopropyl
H	amino acid	H	NH_2	O-acetyl
H	amino acid	H	NH_2	SH
H	amino acid	H	NH_2	SMe
H	amino acid	H	NH_2	SEt
H	amino acid	H	NH_2	S-cyclopropyl
H	amino acid	H	NH_2	F
H	amino acid	H	NH_2	Cl
H	amino acid	H	NH_2	Br
H	amino acid	H	NH_2	I

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	H	NH_2	H
amino acid	amino acid	H	NH_2	NH_2
amino acid	amino acid	H	NH_2	NH-cyclopropyl
amino acid	amino acid	H	NH_2	NH-methyl
amino acid	amino acid	H	NH_2	NH-ethyl
amino acid	amino acid	H	NH_2	NH-acetyl
amino acid	amino acid	H	NH_2	OH
amino acid	amino acid	H	NH_2	OMe
amino acid	amino acid	H	NH_2	OEt
amino acid	amino acid	H	NH_2	O-cyclopropyl
amino acid	amino acid	H	NH_2	O-acetyl
amino acid	amino acid	H	NH_2	SH
amino acid	amino acid	H	NH_2	SMe
amino acid	amino acid	H	NH_2	SEt
amino acid	amino acid	H	NH_2	S-cyclopropyl
amino acid	amino acid	H	NH_2	F
amino acid	amino acid	H	NH_2	Cl
amino acid	amino acid	H	NH_2	Br
amino acid	amino acid	H	NH_2	I
amino acid	H	H	NH_2	H
amino acid	H	H	NH_2	NH_2
amino acid	H	H	NH_2	NH-cyclopropyl
amino acid	H	H	NH_2	NH-methyl
amino acid	H	H	NH_2	NH-ethyl
amino acid	H	H	NH_2	NH-acetyl
amino acid	H	H	NH_2	OH
amino acid	H	H	NH_2	OMe
amino acid	H	H	NH_2	OEt
amino acid	H	H	NH_2	O-cyclopropyl
amino acid	H	H	NH_2	O-acetyl
amino acid	H	H	NH_2	SH
amino acid	H	H	NH_2	SMe
amino acid	H	H	NH_2	SEt
amino acid	H	H	NH_2	S-cyclopropyl
amino acid	H	H	NH_2	F
amino acid	H	H	NH_2	Cl
amino acid	H	H	NH_2	Br
amino acid	H	H	NH_2	I
amino acid	acyl	H	NH_2	H
amino acid	acyl	H	NH_2	NH_2
amino acid	acyl	H	NH_2	NH-cyclopropyl
amino acid	acyl	H	NH_2	NH-methyl
amino acid	acyl	H	NH_2	NH-ethyl
amino acid	acyl	H	NH_2	NH-acetyl
amino acid	acyl	H	NH_2	OH
amino acid	acyl	H	NH_2	OMe
amino acid	acyl	H	NH_2	OEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	NH_2	O-cyclopropyl
amino acid	acyl	H	NH_2	O-acetyl
amino acid	acyl	H	NH_2	SH
amino acid	acyl	H	NH_2	SMe
amino acid	acyl	H	NH_2	SEt
amino acid	acyl	H	NH_2	S-cyclopropyl
amino acid	acyl	H	NH_2	F
amino acid	acyl	H	NH_2	Cl
amino acid	acyl	H	NH_2	Br
amino acid	acyl	H	NH_2	I
acyl	H	NH_2	NH_2	H
acyl	H	NH_2	NH_2	NH_2
acyl	H	NH_2	NH_2	NH-cyclopropyl
acyl	H	NH_2	NH_2	NH-methyl
acyl	H	NH_2	NH_2	NH-ethyl
acyl	H	NH_2	NH_2	NH-acetyl
acyl	H	NH_2	NH_2	OH
acyl	H	NH_2	NH_2	OMe
acyl	H	NH_2	NH_2	OEt
acyl	H	NH_2	NH_2	O-cyclopropyl
acyl	H	NH_2	NH_2	O-acetyl
acyl	H	NH_2	NH_2	SH
acyl	H	NH_2	NH_2	SMe
acyl	H	NH_2	NH_2	SEt
acyl	H	NH_2	NH_2	S-cyclopropyl
acyl	H	NH_2	NH_2	F
acyl	H	NH_2	NH_2	Cl
acyl	H	NH_2	NH_2	Br
acyl	H	NH_2	NH_2	I
acyl	acyl	NH_2	NH_2	H
acyl	acyl	NH_2	NH_2	NH_2
acyl	acyl	NH_2	NH_2	NH-cyclopropyl
acyl	acyl	NH_2	NH_2	NH-methyl
acyl	acyl	NH_2	NH_2	NH-ethyl
acyl	acyl	NH_2	NH_2	NH-acetyl
acyl	acyl	NH_2	NH_2	OH
acyl	acyl	NH_2	NH_2	OMe
acyl	acyl	NH_2	NH_2	OEt
acyl	acyl	NH_2	NH_2	O-cyclopropyl
acyl	acyl	NH_2	NH_2	O-acetyl
acyl	acyl	NH_2	NH_2	SH
acyl	acyl	NH_2	NH_2	SMe
acyl	acyl	NH_2	NH_2	SEt
acyl	acyl	NH_2	NH_2	S-cyclopropyl
acyl	acyl	NH_2	NH_2	F
acyl	acyl	NH_2	NH_2	Cl
acyl	acyl	NH_2	NH_2	Br

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	NH_2	I
acyl	amino acid	NH_2	NH_2	H
acyl	amino acid	NH_2	NH_2	NH_2
acyl	amino acid	NH_2	NH_2	NH-cyclopropyl
acyl	amino acid	NH_2	NH_2	NH-methyl
acyl	amino acid	NH_2	NH_2	NH-ethyl
acyl	amino acid	NH_2	NH_2	NH-acetyl
acyl	amino acid	NH_2	NH_2	OH
acyl	amino acid	NH_2	NH_2	OMe
acyl	amino acid	NH_2	NH_2	OEt
acyl	amino acid	NH_2	NH_2	O-cyclopropyl
acyl	amino acid	NH_2	NH_2	O-acetyl
acyl	amino acid	NH_2	NH_2	SH
acyl	amino acid	NH_2	NH_2	SMe
acyl	amino acid	NH_2	NH_2	SEt
acyl	amino acid	NH_2	NH_2	S-cyclopropyl
acyl	amino acid	NH_2	NH_2	F
acyl	amino acid	NH_2	NH_2	Cl
acyl	amino acid	NH_2	NH_2	Br
acyl	amino acid	NH_2	NH_2	I
H	acyl	NH_2	NH_2	H
H	acyl	NH_2	NH_2	NH_2
H	acyl	NH_2	NH_2	NH-cyclopropyl
H	acyl	NH_2	NH_2	NH-methyl
H	acyl	NH_2	NH_2	NH-ethyl
H	acyl	NH_2	NH_2	NH-acetyl
H	acyl	NH_2	NH_2	OH
H	acyl	NH_2	NH_2	OMe
H	acyl	NH_2	NH_2	OEt
H	acyl	NH_2	NH_2	O-cyclopropyl
H	acyl	NH_2	NH_2	O-acetyl
H	acyl	NH_2	NH_2	SH
H	acyl	NH_2	NH_2	SMe
H	acyl	NH_2	NH_2	SEt
H	acyl	NH_2	NH_2	S-cyclopropyl
H	acyl	NH_2	NH_2	F
H	acyl	NH_2	NH_2	Cl
H	acyl	NH_2	NH_2	Br
H	acyl	NH_2	NH_2	I
H	amino acid	NH_2	NH_2	H
H	amino acid	NH_2	NH_2	NH_2
H	amino acid	NH_2	NH_2	NH-cyclopropyl
H	amino acid	NH_2	NH_2	NH-methyl
H	amino acid	NH_2	NH_2	NH-ethyl
H	amino acid	NH_2	NH_2	NH-acetyl
H	amino acid	NH_2	NH_2	OH
H	amino acid	NH_2	NH_2	OMe

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	NH_2	OEt
H	amino acid	NH_2	NH_2	O-cyclopropyl
H	amino acid	NH_2	NH_2	O-acetyl
H	amino acid	NH_2	NH_2	SH
H	amino acid	NH_2	NH_2	SMe
H	amino acid	NH_2	NH_2	SEt
H	amino acid	NH_2	NH_2	S-cyclopropyl
H	amino acid	NH_2	NH_2	F
H	amino acid	NH_2	NH_2	Cl
H	amino acid	NH_2	NH_2	Br
H	amino acid	NH_2	NH_2	I
amino acid	amino acid	NH_2	NH_2	H
amino acid	amino acid	NH_2	NH_2	NH_2
amino acid	amino acid	NH_2	NH_2	NH-cyclopropyl
amino acid	amino acid	NH_2	NH_2	NH-methyl
amino acid	amino acid	NH_2	NH_2	NH-ethyl
amino acid	amino acid	NH_2	NH_2	NH-acetyl
amino acid	amino acid	NH_2	NH_2	OH
amino acid	amino acid	NH_2	NH_2	OMe
amino acid	amino acid	NH_2	NH_2	OEt
amino acid	amino acid	NH_2	NH_2	O-cyclopropyl
amino acid	amino acid	NH_2	NH_2	O-acetyl
amino acid	amino acid	NH_2	NH_2	SH
amino acid	amino acid	NH_2	NH_2	SMe
amino acid	amino acid	NH_2	NH_2	SEt
amino acid	amino acid	NH_2	NH_2	S-cyclopropyl
amino acid	amino acid	NH_2	NH_2	F
amino acid	amino acid	NH_2	NH_2	Cl
amino acid	amino acid	NH_2	NH_2	Br
amino acid	amino acid	NH_2	NH_2	I
amino acid	H	NH_2	NH_2	H
amino acid	H	NH_2	NH_2	NH_2
amino acid	H	NH_2	NH_2	NH-cyclopropyl
amino acid	H	NH_2	NH_2	NH-methyl
amino acid	H	NH_2	NH_2	NH-ethyl
amino acid	H	NH_2	NH_2	NH-acetyl
amino acid	H	NH_2	NH_2	OH
amino acid	H	NH_2	NH_2	OMe
amino acid	H	NH_2	NH_2	OEt
amino acid	H	NH_2	NH_2	O-cyclopropyl
amino acid	H	NH_2	NH_2	O-acetyl
amino acid	H	NH_2	NH_2	SH
amino acid	H	NH_2	NH_2	SMe
amino acid	H	NH_2	NH_2	SEt
amino acid	H	NH_2	NH_2	S-cyclopropyl
amino acid	H	NH_2	NH_2	F
amino acid	H	NH_2	NH_2	Cl

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	NH_2	Br
amino acid	H	NH_2	NH_2	I
amino acid	acyl	NH_2	NH_2	H
amino acid	acyl	NH_2	NH_2	NH_2
amino acid	acyl	NH_2	NH_2	NH-cyclopropyl
amino acid	acyl	NH_2	NH_2	NH-methyl
amino acid	acyl	NH_2	NH_2	NH-ethyl
amino acid	acyl	NH_2	NH_2	NH-acetyl
amino acid	acyl	NH_2	NH_2	OH
amino acid	acyl	NH_2	NH_2	OMe
amino acid	acyl	NH_2	NH_2	OEt
amino acid	acyl	NH_2	NH_2	O-cyclopropyl
amino acid	acyl	NH_2	NH_2	O-acetyl
amino acid	acyl	NH_2	NH_2	SH
amino acid	acyl	NH_2	NH_2	SMe
amino acid	acyl	NH_2	NH_2	SEt
amino acid	acyl	NH_2	NH_2	S-cyclopropyl
amino acid	acyl	NH_2	NH_2	F
amino acid	acyl	NH_2	NH_2	Cl
amino acid	acyl	NH_2	NH_2	Br
amino acid	acyl	NH_2	NH_2	I
acyl	H	OH	NH_2	H
acyl	H	OH	NH_2	NH_2
acyl	H	OH	NH_2	NH-cyclopropyl
acyl	H	OH	NH_2	NH-methyl
acyl	H	OH	NH_2	NH-ethyl
acyl	H	OH	NH_2	NH-acetyl
acyl	H	OH	NH_2	OH
acyl	H	OH	NH_2	OMe
acyl	H	OH	NH_2	OEt
acyl	H	OH	NH_2	O-cyclopropyl
acyl	H	OH	NH_2	O-acetyl
acyl	H	OH	NH_2	SH
acyl	H	OH	NH_2	SMe
acyl	H	OH	NH_2	SEt
acyl	H	OH	NH_2	S-cyclopropyl
acyl	H	OH	NH_2	F
acyl	H	OH	NH_2	Cl
acyl	H	OH	NH_2	Br
acyl	H	OH	NH_2	I
acyl	acyl	OH	NH_2	H
acyl	acyl	OH	NH_2	NH_2
acyl	acyl	OH	NH_2	NH-cyclopropyl
acyl	acyl	OH	NH_2	NH-methyl
acyl	acyl	OH	NH_2	NH-ethyl
acyl	acyl	OH	NH_2	NH-acetyl
acyl	acyl	OH	NH_2	OH

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	NH_2	OMe
acyl	acyl	OH	NH_2	OEt
acyl	acyl	OH	NH_2	O-cyclopropyl
acyl	acyl	OH	NH_2	O-acetyl
acyl	acyl	OH	NH_2	SH
acyl	acyl	OH	NH_2	SMe
acyl	acyl	OH	NH_2	SEt
acyl	acyl	OH	NH_2	S-cyclopropyl
acyl	acyl	OH	NH_2	F
acyl	acyl	OH	NH_2	Cl
acyl	acyl	OH	NH_2	Br
acyl	acyl	OH	NH_2	I
acyl	amino acid	OH	NH_2	H
acyl	amino acid	OH	NH_2	NH_2
acyl	amino acid	OH	NH_2	NH-cyclopropyl
acyl	amino acid	OH	NH_2	NH-methyl
acyl	amino acid	OH	NH_2	NH-ethyl
acyl	amino acid	OH	NH_2	NH-acetyl
acyl	amino acid	OH	NH_2	OH
acyl	amino acid	OH	NH_2	OMe
acyl	amino acid	OH	NH_2	OEt
acyl	amino acid	OH	NH_2	O-cyclopropyl
acyl	amino acid	OH	NH_2	O-acetyl
acyl	amino acid	OH	NH_2	SH
acyl	amino acid	OH	NH_2	SMe
acyl	amino acid	OH	NH_2	SEt
acyl	amino acid	OH	NH_2	S-cyclopropyl
acyl	amino acid	OH	NH_2	F
acyl	amino acid	OH	NH_2	Cl
acyl	amino acid	OH	NH_2	Br
acyl	amino acid	OH	NH_2	I
H	acyl	OH	NH_2	H
H	acyl	OH	NH_2	NH_2
H	acyl	OH	NH_2	NH-cyclopropyl
H	acyl	OH	NH_2	NH-methyl
H	acyl	OH	NH_2	NH-ethyl
H	acyl	OH	NH_2	NH-acetyl
H	acyl	OH	NH_2	OH
H	acyl	OH	NH_2	OMe
H	acyl	OH	NH_2	OEt
H	acyl	OH	NH_2	O-cyclopropyl
H	acyl	OH	NH_2	O-acetyl
H	acyl	OH	NH_2	SH
H	acyl	OH	NH_2	SMe
H	acyl	OH	NH_2	SEt
H	acyl	OH	NH_2	S-cyclopropyl
H	acyl	OH	NH_2	F

R^2	R^3	X^1	X^2	Y
H	acyl	OH	NH_2	Cl
H	acyl	OH	NH_2	Br
H	acyl	OH	NH_2	I
H	amino acid	OH	NH_2	H
H	amino acid	OH	NH_2	NH_2
H	amino acid	OH	NH_2	NH-cyclopropyl
H	amino acid	OH	NH_2	NH-methyl
H	amino acid	OH	NH_2	NH-ethyl
H	amino acid	OH	NH_2	NH-acetyl
H	amino acid	OH	NH_2	OH
H	amino acid	OH	NH_2	OMe
H	amino acid	OH	NH_2	OEt
H	amino acid	OH	NH_2	O-cyclopropyl
H	amino acid	OH	NH_2	O-acetyl
H	amino acid	OH	NH_2	SH
H	amino acid	OH	NH_2	SMe
H	amino acid	OH	NH_2	SEt
H	amino acid	OH	NH_2	S-cyclopropyl
H	amino acid	OH	NH_2	F
H	amino acid	OH	NH_2	Cl
H	amino acid	OH	NH_2	Br
H	amino acid	OH	NH_2	I
amino acid	amino acid	OH	NH_2	H
amino acid	amino acid	OH	NH_2	NH_2
amino acid	amino acid	OH	NH_2	NH-cyclopropyl
amino acid	amino acid	OH	NH_2	NH-methyl
amino acid	amino acid	OH	NH_2	NH-ethyl
amino acid	amino acid	OH	NH_2	NH-acetyl
amino acid	amino acid	OH	NH_2	OH
amino acid	amino acid	OH	NH_2	OMe
amino acid	amino acid	OH	NH_2	OEt
amino acid	amino acid	OH	NH_2	O-cyclopropyl
amino acid	amino acid	OH	NH_2	O-acetyl
amino acid	amino acid	OH	NH_2	SH
amino acid	amino acid	OH	NH_2	SMe
amino acid	amino acid	OH	NH_2	SEt
amino acid	amino acid	OH	NH_2	S-cyclopropyl
amino acid	amino acid	OH	NH_2	F
amino acid	amino acid	OH	NH_2	Cl
amino acid	amino acid	OH	NH_2	Br
amino acid	amino acid	OH	NH_2	I
amino acid	H	OH	NH_2	H
amino acid	H	OH	NH_2	NH_2
amino acid	H	OH	NH_2	NH-cyclopropyl
amino acid	H	OH	NH_2	NH-methyl
amino acid	H	OH	NH_2	NH-ethyl
amino acid	H	OH	NH_2	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	NH_2	OH
amino acid	H	OH	NH_2	OMe
amino acid	H	OH	NH_2	OEt
amino acid	H	OH	NH_2	O-cyclopropyl
amino acid	H	OH	NH_2	O-acetyl
amino acid	H	OH	NH_2	SH
amino acid	H	OH	NH_2	SMe
amino acid	H	OH	NH_2	SEt
amino acid	H	OH	NH_2	S-cyclopropyl
amino acid	H	OH	NH_2	F
amino acid	H	OH	NH_2	Cl
amino acid	H	OH	NH_2	Br
amino acid	H	OH	NH_2	I
amino acid	acyl	OH	NH_2	H
amino acid	acyl	OH	NH_2	NH_2
amino acid	acyl	OH	NH_2	NH-cyclopropyl
amino acid	acyl	OH	NH_2	NH-methyl
amino acid	acyl	OH	NH_2	NH-ethyl
amino acid	acyl	OH	NH_2	NH-acetyl
amino acid	acyl	OH	NH_2	OH
amino acid	acyl	OH	NH_2	OMe
amino acid	acyl	OH	NH_2	OEt
amino acid	acyl	OH	NH_2	O-cyclopropyl
amino acid	acyl	OH	NH_2	O-acetyl
amino acid	acyl	OH	NH_2	SH
amino acid	acyl	OH	NH_2	SMe
amino acid	acyl	OH	NH_2	SEt
amino acid	acyl	OH	NH_2	S-cyclopropyl
amino acid	acyl	OH	NH_2	F
amino acid	acyl	OH	NH_2	Cl
amino acid	acyl	OH	NH_2	Br
amino acid	acyl	OH	NH_2	I
acyl	H	OH	H	H
acyl	H	OH	H	NH_2
acyl	H	OH	H	NH-cyclopropyl
acyl	H	OH	H	NH-methyl
acyl	H	OH	H	NH-ethyl
acyl	H	OH	H	NH-acetyl
acyl	H	OH	H	OH
acyl	H	OH	H	OMe
acyl	H	OH	H	OEt
acyl	H	OH	H	O-cyclopropyl
acyl	H	OH	H	O-acetyl
acyl	H	OH	H	SH
acyl	H	OH	H	SMe
acyl	H	OH	H	SEt
acyl	H	OH	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	H	F
acyl	H	OH	H	Cl
acyl	H	OH	H	Br
acyl	H	OH	H	I
acyl	acyl	OH	H	H
acyl	acyl	OH	H	NH_2
acyl	acyl	OH	H	NH-cyclopropyl
acyl	acyl	OH	H	NH-methyl
acyl	acyl	OH	H	NH-ethyl
acyl	acyl	OH	H	NH-acetyl
acyl	acyl	OH	H	OH
acyl	acyl	OH	H	OMe
acyl	acyl	OH	H	OEt
acyl	acyl	OH	H	O-cyclopropyl
acyl	acyl	OH	H	O-acetyl
acyl	acyl	OH	H	SH
acyl	acyl	OH	H	SMe
acyl	acyl	OH	H	SEt
acyl	acyl	OH	H	S-cyclopropyl
acyl	acyl	OH	H	F
acyl	acyl	OH	H	Cl
acyl	acyl	OH	H	Br
acyl	acyl	OH	H	I
acyl	amino acid	OH	H	H
acyl	amino acid	OH	H	NH_2
acyl	amino acid	OH	H	NH-cyclopropyl
acyl	amino acid	OH	H	NH-methyl
acyl	amino acid	OH	H	NH-ethyl
acyl	amino acid	OH	H	NH-acetyl
acyl	amino acid	OH	H	OH
acyl	amino acid	OH	H	OMe
acyl	amino acid	OH	H	OEt
acyl	amino acid	OH	H	O-cyclopropyl
acyl	amino acid	OH	H	O-acetyl
acyl	amino acid	OH	H	SH
acyl	amino acid	OH	H	SMe
acyl	amino acid	OH	H	SEt
acyl	amino acid	OH	H	S-cyclopropyl
acyl	amino acid	OH	H	F
acyl	amino acid	OH	H	Cl
acyl	amino acid	OH	H	Br
acyl	amino acid	OH	H	I
H	acyl	OH	H	H
H	acyl	OH	H	NH_2
H	acyl	OH	H	NH-cyclopropyl
H	acyl	OH	H	NH-methyl
H	acyl	OH	H	NH-ethyl

R^2	R^3	X^1	X^2	Y
H	acyl	OH	H	NH-acetyl
H	acyl	OH	H	OH
H	acyl	OH	H	OMe
H	acyl	OH	H	OEt
H	acyl	OH	H	O-cyclopropyl
H	acyl	OH	H	O-acetyl
H	acyl	OH	H	SH
H	acyl	OH	H	SMe
H	acyl	OH	H	SEt
H	acyl	OH	H	S-cyclopropyl
H	acyl	OH	H	F
H	acyl	OH	H	Cl
H	acyl	OH	H	Br
H	acyl	OH	H	I
H	amino acid	OH	H	H
H	amino acid	OH	H	NH_2
H	amino acid	OH	H	NH-cyclopropyl
H	amino acid	OH	H	NH-methyl
H	amino acid	OH	H	NH-ethyl
H	amino acid	OH	H	NH-acetyl
H	amino acid	OH	H	OH
H	amino acid	OH	H	OMe
H	amino acid	OH	H	OEt
H	amino acid	OH	H	O-cyclopropyl
H	amino acid	OH	H	O-acetyl
H	amino acid	OH	H	SH
H	amino acid	OH	H	SMe
H	amino acid	OH	H	SEt
H	amino acid	OH	H	S-cyclopropyl
H	amino acid	OH	H	F
H	amino acid	OH	H	Cl
H	amino acid	OH	H	Br
H	amino acid	OH	H	I
amino acid	amino acid	OH	H	H
amino acid	amino acid	OH	H	NH_2
amino acid	amino acid	OH	H	NH-cyclopropyl
amino acid	amino acid	OH	H	NH-methyl
amino acid	amino acid	OH	H	NH-ethyl
amino acid	amino acid	OH	H	NH-acetyl
amino acid	amino acid	OH	H	OH
amino acid	amino acid	OH	H	OMe
amino acid	amino acid	OH	H	OEt
amino acid	amino acid	OH	H	O-cyclopropyl
amino acid	amino acid	OH	H	O-acetyl
amino acid	amino acid	OH	H	SH
amino acid	amino acid	OH	H	SMe
amino acid	amino acid	OH	H	SEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	H	S-cyclopropyl
amino acid	amino acid	OH	H	F
amino acid	amino acid	OH	H	Cl
amino acid	amino acid	OH	H	Br
amino acid	amino acid	OH	H	I
amino acid	H	OH	H	H
amino acid	H	OH	H	NH_2
amino acid	H	OH	H	NH-cyclopropyl
amino acid	H	OH	H	NH-methyl
amino acid	H	OH	H	NH-ethyl
amino acid	H	OH	H	NH-acetyl
amino acid	H	OH	H	OH
amino acid	H	OH	H	OMe
amino acid	H	OH	H	OEt
amino acid	H	OH	H	O-cyclopropyl
amino acid	H	OH	H	O-acetyl
amino acid	H	OH	H	SH
amino acid	H	OH	H	SMe
amino acid	H	OH	H	SEt
amino acid	H	OH	H	S-cyclopropyl
amino acid	H	OH	H	F
amino acid	H	OH	H	Cl
amino acid	H	OH	H	Br
amino acid	H	OH	H	I
amino acid	acyl	OH	H	H
amino acid	acyl	OH	H	NH_2
amino acid	acyl	OH	H	NH-cyclopropyl
amino acid	acyl	OH	H	NH-methyl
amino acid	acyl	OH	H	NH-ethyl
amino acid	acyl	OH	H	NH-acetyl
amino acid	acyl	OH	H	OH
amino acid	acyl	OH	H	OMe
amino acid	acyl	OH	H	OEt
amino acid	acyl	OH	H	O-cyclopropyl
amino acid	acyl	OH	H	O-acetyl
amino acid	acyl	OH	H	SH
amino acid	acyl	OH	H	SMe
amino acid	acyl	OH	H	SEt
amino acid	acyl	OH	H	S-cyclopropyl
amino acid	acyl	OH	H	F
amino acid	acyl	OH	H	Cl
amino acid	acyl	OH	H	Br
amino acid	acyl	OH	H	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	H	OH	H
acyl	H	H	OH	NH_2
acyl	H	H	OH	NH-cyclopropyl
acyl	H	H	OH	NH-methyl
acyl	H	H	OH	NH-ethyl
acyl	H	H	OH	NH-acetyl
acyl	H	H	OH	OH
acyl	H	H	OH	OMe
acyl	H	H	OH	OEt
acyl	H	H	OH	O-cyclopropyl
acyl	H	H	OH	O-acetyl
acyl	H	H	OH	SH
acyl	H	H	OH	SMe
acyl	H	H	OH	SEt
acyl	H	H	OH	S-cyclopropyl
acyl	H	H	OH	F
acyl	H	H	OH	Cl
acyl	H	H	OH	Br
acyl	H	H	OH	I
acyl	acyl	H	OH	H
acyl	acyl	H	OH	NH_2
acyl	acyl	H	OH	NH-cyclopropyl
acyl	acyl	H	OH	NH-methyl
acyl	acyl	H	OH	NH-ethyl
acyl	acyl	H	OH	NH-acetyl
acyl	acyl	H	OH	OH
acyl	acyl	H	OH	OMe
acyl	acyl	H	OH	OEt
acyl	acyl	H	OH	O-cyclopropyl
acyl	acyl	H	OH	O-acetyl
acyl	acyl	H	OH	SH
acyl	acyl	H	OH	SMe
acyl	acyl	H	OH	SEt
acyl	acyl	H	OH	S-cyclopropyl
acyl	acyl	H	OH	F
acyl	acyl	H	OH	Cl
acyl	acyl	H	OH	Br
acyl	acyl	H	OH	I
acyl	amino acid	H	OH	H
acyl	amino acid	H	OH	NH_2

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	OH	NH-cyclopropyl
acyl	amino acid	H	OH	NH-methyl
acyl	amino acid	H	OH	NH-ethyl
acyl	amino acid	H	OH	NH-acetyl
acyl	amino acid	H	OH	OH
acyl	amino acid	H	OH	OMe
acyl	amino acid	H	OH	OEt
acyl	amino acid	H	OH	O-cyclopropyl
acyl	amino acid	H	OH	O-acetyl
acyl	amino acid	H	OH	SH
acyl	amino acid	H	OH	SMe
acyl	amino acid	H	OH	SEt
acyl	amino acid	H	OH	S-cyclopropyl
acyl	amino acid	H	OH	F
acyl	amino acid	H	OH	Cl
acyl	amino acid	H	OH	Br
acyl	amino acid	H	OH	I
H	acyl	H	OH	H
H	acyl	H	OH	NH_2
H	acyl	H	OH	NH-cyclopropyl
H	acyl	H	OH	NH-methyl
H	acyl	H	OH	NH-ethyl
H	acyl	H	OH	NH-acetyl
H	acyl	H	OH	OH
H	acyl	H	OH	OMe
H	acyl	H	OH	OEt
H	acyl	H	OH	O-cyclopropyl
H	acyl	H	OH	O-acetyl
H	acyl	H	OH	SH
H	acyl	H	OH	SMe
H	acyl	H	OH	SEt
H	acyl	H	OH	S-cyclopropyl
H	acyl	H	OH	F
H	acyl	H	OH	Cl
H	acyl	H	OH	Br
H	acyl	H	OH	I
H	amino acid	H	OH	H
H	amino acid	H	OH	NH_2
H	amino acid	H	OH	NH-cyclopropyl
H	amino acid	H	OH	NH-methyl
H	amino acid	H	OH	NH-ethyl
H	amino acid	H	OH	NH-acetyl
H	amino acid	H	OH	OH
H	amino acid	H	OH	OMe
H	amino acid	H	OH	OEt
H	amino acid	H	OH	O-cyclopropyl
H	amino acid	H	OH	O-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	OH	SH
H	amino acid	H	OH	SMe
H	amino acid	H	OH	SEt
H	amino acid	H	OH	S-cyclopropyl
H	amino acid	H	OH	F
H	amino acid	H	OH	Cl
H	amino acid	H	OH	Br
H	amino acid	H	OH	I
amino acid	amino acid	H	OH	H
amino acid	amino acid	H	OH	NH_2
amino acid	amino acid	H	OH	NH-cyclopropyl
amino acid	amino acid	H	OH	NH-methyl
amino acid	amino acid	H	OH	NH-ethyl
amino acid	amino acid	H	OH	NH-acetyl
amino acid	amino acid	H	OH	OH
amino acid	amino acid	H	OH	OMe
amino acid	amino acid	H	OH	OEt
amino acid	amino acid	H	OH	O-cyclopropyl
amino acid	amino acid	H	OH	O-acetyl
amino acid	amino acid	H	OH	SH
amino acid	amino acid	H	OH	SMe
amino acid	amino acid	H	OH	SEt
amino acid	amino acid	H	OH	S-cyclopropyl
amino acid	amino acid	H	OH	F
amino acid	amino acid	H	OH	Cl
amino acid	amino acid	H	OH	Br
amino acid	amino acid	H	OH	I
amino acid	H	H	OH	H
amino acid	H	H	OH	NH_2
amino acid	H	H	OH	NH-cyclopropyl
amino acid	H	H	OH	NH-methyl
amino acid	H	H	OH	NH-ethyl
amino acid	H	H	OH	NH-acetyl
amino acid	H	H	OH	OH
amino acid	H	H	OH	OMe
amino acid	H	H	OH	OEt
amino acid	H	H	OH	O-cyclopropyl
amino acid	H	H	OH	O-acetyl
amino acid	H	H	OH	SH
amino acid	H	H	OH	SMe
amino acid	H	H	OH	SEt
amino acid	H	H	OH	S-cyclopropyl
amino acid	H	H	OH	F
amino acid	H	H	OH	Cl
amino acid	H	H	OH	Br
amino acid	H	H	OH	I
amino acid	acyl	H	OH	H

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	OH	NH_2
amino acid	acyl	H	OH	NH-cyclopropyl
amino acid	acyl	H	OH	NH-methyl
amino acid	acyl	H	OH	NH-ethyl
amino acid	acyl	H	OH	NH-acetyl
amino acid	acyl	H	OH	OH
amino acid	acyl	H	OH	OMe
amino acid	acyl	H	OH	OEt
amino acid	acyl	H	OH	O-cyclopropyl
amino acid	acyl	H	OH	O-acetyl
amino acid	acyl	H	OH	SH
amino acid	acyl	H	OH	SMe
amino acid	acyl	H	OH	SEt
amino acid	acyl	H	OH	S-cyclopropyl
amino acid	acyl	H	OH	F
amino acid	acyl	H	OH	Cl
amino acid	acyl	H	OH	Br
amino acid	acyl	H	OH	I
acyl	H	OH	SH	H
acyl	H	OH	SH	NH_2
acyl	H	OH	SH	NH-cyclopropyl
acyl	H	OH	SH	NH-methyl
acyl	H	OH	SH	NH-ethyl
acyl	H	OH	SH	NH-acetyl
acyl	H	OH	SH	OH
acyl	H	OH	SH	OMe
acyl	H	OH	SH	OEt
acyl	H	OH	SH	O-cyclopropyl
acyl	H	OH	SH	O-acetyl
acyl	H	OH	SH	SH
acyl	H	OH	SH	SMe
acyl	H	OH	SH	SEt
acyl	H	OH	SH	S-cyclopropyl
acyl	H	OH	SH	F
acyl	H	OH	SH	Cl
acyl	H	OH	SH	Br
acyl	H	OH	SH	I
acyl	acyl	OH	SH	H
acyl	acyl	OH	SH	NH_2
acyl	acyl	OH	SH	NH-cyclopropyl
acyl	acyl	OH	SH	NH-methyl
acyl	acyl	OH	SH	NH-ethyl
acyl	acyl	OH	SH	NH-acetyl
acyl	acyl	OH	SH	OH
acyl	acyl	OH	SH	OMe
acyl	acyl	OH	SH	OEt
acyl	acyl	OH	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	OH	SH	O-acetyl
acyl	acyl	OH	SH	SH
acyl	acyl	OH	SH	SMe
acyl	acyl	OH	SH	SEt
acyl	acyl	OH	SH	S-cyclopropyl
acyl	acyl	OH	SH	F
acyl	acyl	OH	SH	Cl
acyl	acyl	OH	SH	Br
acyl	acyl	OH	SH	I
acyl	amino acid	OH	SH	H
acyl	amino acid	OH	SH	NH_2
acyl	amino acid	OH	SH	NH-cyclopropyl
acyl	amino acid	OH	SH	NH-methyl
acyl	amino acid	OH	SH	NH-ethyl
acyl	amino acid	OH	SH	NH-acetyl
acyl	amino acid	OH	SH	OH
acyl	amino acid	OH	SH	OMe
acyl	amino acid	OH	SH	OEt
acyl	amino acid	OH	SH	O-cyclopropyl
acyl	amino acid	OH	SH	O-acetyl
acyl	amino acid	OH	SH	SH
acyl	amino acid	OH	SH	SMe
acyl	amino acid	OH	SH	SEt
acyl	amino acid	OH	SH	S-cyclopropyl
acyl	amino acid	OH	SH	F
acyl	amino acid	OH	SH	Cl
acyl	amino acid	OH	SH	Br
acyl	amino acid	OH	SH	I
H	acyl	OH	SH	H
H	acyl	OH	SH	NH_2
H	acyl	OH	SH	NH-cyclopropyl
H	acyl	OH	SH	NH-methyl
H	acyl	OH	SH	NH-ethyl
H	acyl	OH	SH	NH-acetyl
H	acyl	OH	SH	OH
H	acyl	OH	SH	OMe
H	acyl	OH	SH	OEt
H	acyl	OH	SH	O-cyclopropyl
H	acyl	OH	SH	O-acetyl
H	acyl	OH	SH	SH
H	acyl	OH	SH	SMe
H	acyl	OH	SH	SEt
H	acyl	OH	SH	S-cyclopropyl
H	acyl	OH	SH	F
H	acyl	OH	SH	Cl
H	acyl	OH	SH	Br
H	acyl	OH	SH	I

R^2	R^3	X^1	X^2	Y
H	amino acid	OH	SH	H
H	amino acid	OH	SH	NH_2
H	amino acid	OH	SH	NH-cyclopropyl
H	amino acid	OH	SH	NH-methyl
H	amino acid	OH	SH	NH-ethyl
H	amino acid	OH	SH	NH-acetyl
H	amino acid	OH	SH	OH
H	amino acid	OH	SH	OMe
H	amino acid	OH	SH	OEt
H	amino acid	OH	SH	O-cyclopropyl
H	amino acid	OH	SH	O-acetyl
H	amino acid	OH	SH	SH
H	amino acid	OH	SH	SMe
H	amino acid	OH	SH	SEt
H	amino acid	OH	SH	S-cyclopropyl
H	amino acid	OH	SH	F
H	amino acid	OH	SH	Cl
H	amino acid	OH	SH	Br
H	amino acid	OH	SH	I
amino acid	amino acid	OH	SH	H
amino acid	amino acid	OH	SH	NH_2
amino acid	amino acid	OH	SH	NH-cyclopropyl
amino acid	amino acid	OH	SH	NH-methyl
amino acid	amino acid	OH	SH	NH-ethyl
amino acid	amino acid	OH	SH	NH-acetyl
amino acid	amino acid	OH	SH	OH
amino acid	amino acid	OH	SH	OMe
amino acid	amino acid	OH	SH	OEt
amino acid	amino acid	OH	SH	O-cyclopropyl
amino acid	amino acid	OH	SH	O-acetyl
amino acid	amino acid	OH	SH	SH
amino acid	amino acid	OH	SH	SMe
amino acid	amino acid	OH	SH	SEt
amino acid	amino acid	OH	SH	S-cyclopropyl
amino acid	amino acid	OH	SH	F
amino acid	amino acid	OH	SH	Cl
amino acid	amino acid	OH	SH	Br
amino acid	amino acid	OH	SH	I
amino acid	H	OH	SH	H
amino acid	H	OH	SH	NH_2
amino acid	H	OH	SH	NH-cyclopropyl
amino acid	H	OH	SH	NH-methyl
amino acid	H	OH	SH	NH-ethyl
amino acid	H	OH	SH	NH-acetyl
amino acid	H	OH	SH	OH
amino acid	H	OH	SH	OMe
amino acid	H	OH	SH	OEt

R^2	R^3	X^1	X^2	Y
amino acid	H	OH	SH	O-cyclopropyl
amino acid	H	OH	SH	O-acetyl
amino acid	H	OH	SH	SH
amino acid	H	OH	SH	SMe
amino acid	H	OH	SH	SEt
amino acid	H	OH	SH	S-cyclopropyl
amino acid	H	OH	SH	F
amino acid	H	OH	SH	Cl
amino acid	H	OH	SH	Br
amino acid	H	OH	SH	I
amino acid	acyl	OH	SH	H
amino acid	acyl	OH	SH	NH_2
amino acid	acyl	OH	SH	NH-cyclopropyl
amino acid	acyl	OH	SH	NH-methyl
amino acid	acyl	OH	SH	NH-ethyl
amino acid	acyl	OH	SH	NH-acetyl
amino acid	acyl	OH	SH	OH
amino acid	acyl	OH	SH	OMe
amino acid	acyl	OH	SH	OEt
amino acid	acyl	OH	SH	O-cyclopropyl
amino acid	acyl	OH	SH	O-acetyl
amino acid	acyl	OH	SH	SH
amino acid	acyl	OH	SH	SMe
amino acid	acyl	OH	SH	SEt
amino acid	acyl	OH	SH	S-cyclopropyl
amino acid	acyl	OH	SH	F
amino acid	acyl	OH	SH	Cl
amino acid	acyl	OH	SH	Br
amino acid	acyl	OH	SH	I
acyl	H	SH	OH	H
acyl	H	SH	OH	NH_2
acyl	H	SH	OH	NH-cyclopropyl
acyl	H	SH	OH	NH-methyl
acyl	H	SH	OH	NH-ethyl
acyl	H	SH	OH	NH-acetyl
acyl	H	SH	OH	OH
acyl	H	SH	OH	OMe
acyl	H	SH	OH	OEt
acyl	H	SH	OH	O-cyclopropyl
acyl	H	SH	OH	O-acetyl
acyl	H	SH	OH	SH
acyl	H	SH	OH	SMe
acyl	H	SH	OH	SEt
acyl	H	SH	OH	S-cyclopropyl
acyl	H	SH	OH	F
acyl	H	SH	OH	Cl
acyl	H	SH	OH	Br

R^2	R^3	X^1	X^2	Y
acyl	H	SH	OH	I
acyl	acyl	SH	OH	H
acyl	acyl	SH	OH	NH_2
acyl	acyl	SH	OH	NH-cyclopropyl
acyl	acyl	SH	OH	NH-methyl
acyl	acyl	SH	OH	NH-ethyl
acyl	acyl	SH	OH	NH-acetyl
acyl	acyl	SH	OH	OH
acyl	acyl	SH	OH	OMe
acyl	acyl	SH	OH	OEt
acyl	acyl	SH	OH	O-cyclopropyl
acyl	acyl	SH	OH	O-acetyl
acyl	acyl	SH	OH	SH
acyl	acyl	SH	OH	SMe
acyl	acyl	SH	OH	SEt
acyl	acyl	SH	OH	S-cyclopropyl
acyl	acyl	SH	OH	F
acyl	acyl	SH	OH	Cl
acyl	acyl	SH	OH	Br
acyl	acyl	SH	OH	I
acyl	amino acid	SH	OH	H
acyl	amino acid	SH	OH	NH_2
acyl	amino acid	SH	OH	NH-cyclopropyl
acyl	amino acid	SH	OH	NH-methyl
acyl	amino acid	SH	OH	NH-ethyl
acyl	amino acid	SH	OH	NH-acetyl
acyl	amino acid	SH	OH	OH
acyl	amino acid	SH	OH	OMe
acyl	amino acid	SH	OH	OEt
acyl	amino acid	SH	OH	O-cyclopropyl
acyl	amino acid	SH	OH	O-acetyl
acyl	amino acid	SH	OH	SH
acyl	amino acid	SH	OH	SMe
acyl	amino acid	SH	OH	SEt
acyl	amino acid	SH	OH	S-cyclopropyl
acyl	amino acid	SH	OH	F
acyl	amino acid	SH	OH	Cl
acyl	amino acid	SH	OH	Br
acyl	amino acid	SH	OH	I
H	acyl	SH	OH	H
H	acyl	SH	OH	NH_2
H	acyl	SH	OH	NH-cyclopropyl
H	acyl	SH	OH	NH-methyl
H	acyl	SH	OH	NH-ethyl
H	acyl	SH	OH	NH-acetyl
H	acyl	SH	OH	OH
H	acyl	SH	OH	OMe

R^2	R^3	X^1	X^2	Y
H	acyl	SH	OH	OEt
H	acyl	SH	OH	O-cyclopropyl
H	acyl	SH	OH	O-acetyl
H	acyl	SH	OH	SH
H	acyl	SH	OH	SMe
H	acyl	SH	OH	SEt
H	acyl	SH	OH	S-cyclopropyl
H	acyl	SH	OH	F
H	acyl	SH	OH	Cl
H	acyl	SH	OH	Br
H	acyl	SH	OH	I
H	amino acid	SH	OH	H
H	amino acid	SH	OH	NH_2
H	amino acid	SH	OH	NH-cyclopropyl
H	amino acid	SH	OH	NH-methyl
H	amino acid	SH	OH	NH-ethyl
H	amino acid	SH	OH	NH-acetyl
H	amino acid	SH	OH	OH
H	amino acid	SH	OH	OMe
H	amino acid	SH	OH	OEt
H	amino acid	SH	OH	O-cyclopropyl
H	amino acid	SH	OH	O-acetyl
H	amino acid	SH	OH	SH
H	amino acid	SH	OH	SMe
H	amino acid	SH	OH	SEt
H	amino acid	SH	OH	S-cyclopropyl
H	amino acid	SH	OH	F
H	amino acid	SH	OH	Cl
H	amino acid	SH	OH	Br
H	amino acid	SH	OH	I
amino acid	amino acid	SH	OH	H
amino acid	amino acid	SH	OH	NH_2
amino acid	amino acid	SH	OH	NH-cyclopropyl
amino acid	amino acid	SH	OH	NH-methyl
amino acid	amino acid	SH	OH	NH-ethyl
amino acid	amino acid	SH	OH	NH-acetyl
amino acid	amino acid	SH	OH	OH
amino acid	amino acid	SH	OH	OMe
amino acid	amino acid	SH	OH	OEt
amino acid	amino acid	SH	OH	O-cyclopropyl
amino acid	amino acid	SH	OH	O-acetyl
amino acid	amino acid	SH	OH	SH
amino acid	amino acid	SH	OH	SMe
amino acid	amino acid	SH	OH	SEt
amino acid	amino acid	SH	OH	S-cyclopropyl
amino acid	amino acid	SH	OH	F
amino acid	amino acid	SH	OH	Cl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	OH	Br
amino acid	amino acid	SH	OH	I
amino acid	H	SH	OH	H
amino acid	H	SH	OH	NH_2
amino acid	H	SH	OH	NH-cyclopropyl
amino acid	H	SH	OH	NH-methyl
amino acid	H	SH	OH	NH-ethyl
amino acid	H	SH	OH	NH-acetyl
amino acid	H	SH	OH	OH
amino acid	H	SH	OH	OMe
amino acid	H	SH	OH	OEt
amino acid	H	SH	OH	O-cyclopropyl
amino acid	H	SH	OH	O-acetyl
amino acid	H	SH	OH	SH
amino acid	H	SH	OH	SMe
amino acid	H	SH	OH	SEt
amino acid	H	SH	OH	S-cyclopropyl
amino acid	H	SH	OH	F
amino acid	H	SH	OH	Cl
amino acid	H	SH	OH	Br
amino acid	H	SH	OH	I
amino acid	acyl	SH	OH	H
amino acid	acyl	SH	OH	NH_2
amino acid	acyl	SH	OH	NH-cyclopropyl
amino acid	acyl	SH	OH	NH-methyl
amino acid	acyl	SH	OH	NH-ethyl
amino acid	acyl	SH	OH	NH-acetyl
amino acid	acyl	SH	OH	OH
amino acid	acyl	SH	OH	OMe
amino acid	acyl	SH	OH	OEt
amino acid	acyl	SH	OH	O-cyclopropyl
amino acid	acyl	SH	OH	O-acetyl
amino acid	acyl	SH	OH	SH
amino acid	acyl	SH	OH	SMe
amino acid	acyl	SH	OH	SEt
amino acid	acyl	SH	OH	S-cyclopropyl
amino acid	acyl	SH	OH	F
amino acid	acyl	SH	OH	Cl
amino acid	acyl	SH	OH	Br
amino acid	acyl	SH	OH	I
acyl	H	Br	H	H
acyl	H	Br	H	NH_2
acyl	H	Br	H	NH-cyclopropyl
acyl	H	Br	H	NH-methyl
acyl	H	Br	H	NH-ethyl
acyl	H	Br	H	NH-acetyl
acyl	H	Br	H	OH

R^2	R^3	X^1	X^2	Y
acyl	H	Br	H	OMe
acyl	H	Br	H	OEt
acyl	H	Br	H	O-cyclopropyl
acyl	H	Br	H	O-acetyl
acyl	H	Br	H	SH
acyl	H	Br	H	SMe
acyl	H	Br	H	SEt
acyl	H	Br	H	S-cyclopropyl
acyl	H	Br	H	F
acyl	H	Br	H	Cl
acyl	H	Br	H	Br
acyl	H	Br	H	I
acyl	acyl	Br	H	H
acyl	acyl	Br	H	NH_2
acyl	acyl	Br	H	NH-cyclopropyl
acyl	acyl	Br	H	NH-methyl
acyl	acyl	Br	H	NH-ethyl
acyl	acyl	Br	H	NH-acetyl
acyl	acyl	Br	H	OH
acyl	acyl	Br	H	OMe
acyl	acyl	Br	H	OEt
acyl	acyl	Br	H	O-cyclopropyl
acyl	acyl	Br	H	O-acetyl
acyl	acyl	Br	H	SH
acyl	acyl	Br	H	SMe
acyl	acyl	Br	H	SEt
acyl	acyl	Br	H	S-cyclopropyl
acyl	acyl	Br	H	F
acyl	acyl	Br	H	Cl
acyl	acyl	Br	H	Br
acyl	acyl	Br	H	I
acyl	amino acid	Br	H	H
acyl	amino acid	Br	H	NH_2
acyl	amino acid	Br	H	NH-cyclopropyl
acyl	amino acid	Br	H	NH-methyl
acyl	amino acid	Br	H	NH-ethyl
acyl	amino acid	Br	H	NH-acetyl
acyl	amino acid	Br	H	OH
acyl	amino acid	Br	H	OMe
acyl	amino acid	Br	H	OEt
acyl	amino acid	Br	H	O-cyclopropyl
acyl	amino acid	Br	H	O-acetyl
acyl	amino acid	Br	H	SH
acyl	amino acid	Br	H	SMe
acyl	amino acid	Br	H	SEt
acyl	amino acid	Br	H	S-cyclopropyl
acyl	amino acid	Br	H	F

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	H	Cl
acyl	amino acid	Br	H	Br
acyl	amino acid	Br	H	I
H	acyl	Br	H	H
H	acyl	Br	H	NH_2
H	acyl	Br	H	NH-cyclopropyl
H	acyl	Br	H	NH-methyl
H	acyl	Br	H	NH-ethyl
H	acyl	Br	H	NH-acetyl
H	acyl	Br	H	OH
H	acyl	Br	H	OMe
H	acyl	Br	H	OEt
H	acyl	Br	H	O-cyclopropyl
H	acyl	Br	H	O-acetyl
H	acyl	Br	H	SH
H	acyl	Br	H	SMe
H	acyl	Br	H	SEt
H	acyl	Br	H	S-cyclopropyl
H	acyl	Br	H	F
H	acyl	Br	H	Cl
H	acyl	Br	H	Br
H	acyl	Br	H	I
H	amino acid	Br	H	H
H	amino acid	Br	H	NH_2
H	amino acid	Br	H	NH-cyclopropyl
H	amino acid	Br	H	NH-methyl
H	amino acid	Br	H	NH-ethyl
H	amino acid	Br	H	NH-acetyl
H	amino acid	Br	H	OH
H	amino acid	Br	H	OMe
H	amino acid	Br	H	OEt
H	amino acid	Br	H	O-cyclopropyl
H	amino acid	Br	H	O-acetyl
H	amino acid	Br	H	SH
H	amino acid	Br	H	SMe
H	amino acid	Br	H	SEt
H	amino acid	Br	H	S-cyclopropyl
H	amino acid	Br	H	F
H	amino acid	Br	H	Cl
H	amino acid	Br	H	Br
H	amino acid	Br	H	I
amino acid	amino acid	Br	H	H
amino acid	amino acid	Br	H	NH_2
amino acid	amino acid	Br	H	NH-cyclopropyl
amino acid	amino acid	Br	H	NH-methyl
amino acid	amino acid	Br	H	NH-ethyl
amino acid	amino acid	Br	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	H	OH
amino acid	amino acid	Br	H	OMe
amino acid	amino acid	Br	H	OEt
amino acid	amino acid	Br	H	O-cyclopropyl
amino acid	amino acid	Br	H	O-acetyl
amino acid	amino acid	Br	H	SH
amino acid	amino acid	Br	H	SMe
amino acid	amino acid	Br	H	SEt
amino acid	amino acid	Br	H	S-cyclopropyl
amino acid	amino acid	Br	H	F
amino acid	amino acid	Br	H	Cl
amino acid	amino acid	Br	H	Br
amino acid	amino acid	Br	H	I
amino acid	H	Br	H	H
amino acid	H	Br	H	NH_2
amino acid	H	Br	H	NH-cyclopropyl
amino acid	H	Br	H	NH-methyl
amino acid	H	Br	H	NH-ethyl
amino acid	H	Br	H	NH-acetyl
amino acid	H	Br	H	OH
amino acid	H	Br	H	OMe
amino acid	H	Br	H	OEt
amino acid	H	Br	H	O-cyclopropyl
amino acid	H	Br	H	O-acetyl
amino acid	H	Br	H	SH
amino acid	H	Br	H	SMe
amino acid	H	Br	H	SEt
amino acid	H	Br	H	S-cyclopropyl
amino acid	H	Br	H	F
amino acid	H	Br	H	Cl
amino acid	H	Br	H	Br
amino acid	H	Br	H	I
amino acid	acyl	Br	H	H
amino acid	acyl	Br	H	NH_2
amino acid	acyl	Br	H	NH-cyclopropyl
amino acid	acyl	Br	H	NH-methyl
amino acid	acyl	Br	H	NH-ethyl
amino acid	acyl	Br	H	NH-acetyl
amino acid	acyl	Br	H	OH
amino acid	acyl	Br	H	OMe
amino acid	acyl	Br	H	OEt
amino acid	acyl	Br	H	O-cyclopropyl
amino acid	acyl	Br	H	O-acetyl
amino acid	acyl	Br	H	SH
amino acid	acyl	Br	H	SMe
amino acid	acyl	Br	H	SEt
amino acid	acyl	Br	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	H	F
amino acid	acyl	Br	H	Cl
amino acid	acyl	Br	H	Br
amino acid	acyl	Br	H	I
acyl	H	Br	Br	H
acyl	H	Br	Br	NH_2
acyl	H	Br	Br	NH-cyclopropyl
acyl	H	Br	Br	NH-methyl
acyl	H	Br	Br	NH-ethyl
acyl	H	Br	Br	NH-acetyl
acyl	H	Br	Br	OH
acyl	H	Br	Br	OMe
acyl	H	Br	Br	OEt
acyl	H	Br	Br	O-cyclopropyl
acyl	H	Br	Br	O-acetyl
acyl	H	Br	Br	SH
acyl	H	Br	Br	SMe
acyl	H	Br	Br	SEt
acyl	H	Br	Br	S-cyclopropyl
acyl	H	Br	Br	F
acyl	H	Br	Br	Cl
acyl	H	Br	Br	Br
acyl	H	Br	Br	I
acyl	acyl	Br	Br	H
acyl	acyl	Br	Br	NH_2
acyl	acyl	Br	Br	NH-cyclopropyl
acyl	acyl	Br	Br	NH-methyl
acyl	acyl	Br	Br	NH-ethyl
acyl	acyl	Br	Br	NH-acetyl
acyl	acyl	Br	Br	OH
acyl	acyl	Br	Br	OMe
acyl	acyl	Br	Br	OEt
acyl	acyl	Br	Br	O-cyclopropyl
acyl	acyl	Br	Br	O-acetyl
acyl	acyl	Br	Br	SH
acyl	acyl	Br	Br	SMe
acyl	acyl	Br	Br	SEt
acyl	acyl	Br	Br	S-cyclopropyl
acyl	acyl	Br	Br	F
acyl	acyl	Br	Br	Cl
acyl	acyl	Br	Br	Br
acyl	acyl	Br	Br	I
acyl	amino acid	Br	Br	H
acyl	amino acid	Br	Br	NH_2
acyl	amino acid	Br	Br	NH-cyclopropyl
acyl	amino acid	Br	Br	NH-methyl
acyl	amino acid	Br	Br	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	Br	NH-acetyl
acyl	amino acid	Br	Br	OH
acyl	amino acid	Br	Br	OMe
acyl	amino acid	Br	Br	OEt
acyl	amino acid	Br	Br	O-cyclopropyl
acyl	amino acid	Br	Br	O-acetyl
acyl	amino acid	Br	Br	SH
acyl	amino acid	Br	Br	SMe
acyl	amino acid	Br	Br	SEt
acyl	amino acid	Br	Br	S-cyclopropyl
acyl	amino acid	Br	Br	F
acyl	amino acid	Br	Br	Cl
acyl	amino acid	Br	Br	Br
acyl	amino acid	Br	Br	I
H	acyl	Br	Br	H
H	acyl	Br	Br	NH_2
H	acyl	Br	Br	NH-cyclopropyl
H	acyl	Br	Br	NH-methyl
H	acyl	Br	Br	NH-ethyl
H	acyl	Br	Br	NH-acetyl
H	acyl	Br	Br	OH
H	acyl	Br	Br	OMe
H	acyl	Br	Br	OEt
H	acyl	Br	Br	O-cyclopropyl
H	acyl	Br	Br	O-acetyl
H	acyl	Br	Br	SH
H	acyl	Br	Br	SMe
H	acyl	Br	Br	SEt
H	acyl	Br	Br	S-cyclopropyl
H	acyl	Br	Br	F
H	acyl	Br	Br	Cl
H	acyl	Br	Br	Br
H	acyl	Br	Br	I
H	amino acid	Br	Br	H
H	amino acid	Br	Br	NH_2
H	amino acid	Br	Br	NH-cyclopropyl
H	amino acid	Br	Br	NH-methyl
H	amino acid	Br	Br	NH-ethyl
H	amino acid	Br	Br	NH-acetyl
H	amino acid	Br	Br	OH
H	amino acid	Br	Br	OMe
H	amino acid	Br	Br	OEt
H	amino acid	Br	Br	O-cyclopropyl
H	amino acid	Br	Br	O-acetyl
H	amino acid	Br	Br	SH
H	amino acid	Br	Br	SMe
H	amino acid	Br	Br	SEt

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	Br	S-cyclopropyl
H	amino acid	Br	Br	F
H	amino acid	Br	Br	Cl
H	amino acid	Br	Br	Br
H	amino acid	Br	Br	I
amino acid	amino acid	Br	Br	H
amino acid	amino acid	Br	Br	NH_2
amino acid	amino acid	Br	Br	NH-cyclopropyl
amino acid	amino acid	Br	Br	NH-methyl
amino acid	amino acid	Br	Br	NH-ethyl
amino acid	amino acid	Br	Br	NH-acetyl
amino acid	amino acid	Br	Br	OH
amino acid	amino acid	Br	Br	OMe
amino acid	amino acid	Br	Br	OEt
amino acid	amino acid	Br	Br	O-cyclopropyl
amino acid	amino acid	Br	Br	O-acetyl
amino acid	amino acid	Br	Br	SH
amino acid	amino acid	Br	Br	SMe
amino acid	amino acid	Br	Br	SEt
amino acid	amino acid	Br	Br	S-cyclopropyl
amino acid	amino acid	Br	Br	F
amino acid	amino acid	Br	Br	Cl
amino acid	amino acid	Br	Br	Br
amino acid	amino acid	Br	Br	I
amino acid	H	Br	Br	H
amino acid	H	Br	Br	NH_2
amino acid	H	Br	Br	NH-cyclopropyl
amino acid	H	Br	Br	NH-methyl
amino acid	H	Br	Br	NH-ethyl
amino acid	H	Br	Br	NH-acetyl
amino acid	H	Br	Br	OH
amino acid	H	Br	Br	OMe
amino acid	H	Br	Br	OEt
amino acid	H	Br	Br	O-cyclopropyl
amino acid	H	Br	Br	O-acetyl
amino acid	H	Br	Br	SH
amino acid	H	Br	Br	SMe
amino acid	H	Br	Br	SEt
amino acid	H	Br	Br	S-cyclopropyl
amino acid	H	Br	Br	F
amino acid	H	Br	Br	Cl
amino acid	H	Br	Br	Br
amino acid	H	Br	Br	I
amino acid	acyl	Br	Br	H
amino acid	acyl	Br	Br	NH_2
amino acid	acyl	Br	Br	NH-cyclopropyl
amino acid	acyl	Br	Br	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Br	NH-ethyl
amino acid	acyl	Br	Br	NH-acetyl
amino acid	acyl	Br	Br	OH
amino acid	acyl	Br	Br	OMe
amino acid	acyl	Br	Br	OEt
amino acid	acyl	Br	Br	O-cyclopropyl
amino acid	acyl	Br	Br	O-acetyl
amino acid	acyl	Br	Br	SH
amino acid	acyl	Br	Br	SMe
amino acid	acyl	Br	Br	SEt
amino acid	acyl	Br	Br	S-cyclopropyl
amino acid	acyl	Br	Br	F
amino acid	acyl	Br	Br	Cl
amino acid	acyl	Br	Br	Br
amino acid	acyl	Br	Br	I
acyl	H	H	Br	H
acyl	H	H	Br	NH_2
acyl	H	H	Br	NH-cyclopropyl
acyl	H	H	Br	NH-methyl
acyl	H	H	Br	NH-ethyl
acyl	H	H	Br	NH-acetyl
acyl	H	H	Br	OH
acyl	H	H	Br	OMe
acyl	H	H	Br	OEt
acyl	H	H	Br	O-cyclopropyl
acyl	H	H	Br	O-acetyl
acyl	H	H	Br	SH
acyl	H	H	Br	SMe
acyl	H	H	Br	SEt
acyl	H	H	Br	S-cyclopropyl
acyl	H	H	Br	F
acyl	H	H	Br	Cl
acyl	H	H	Br	Br
acyl	H	H	Br	I
acyl	acyl	H	Br	H
acyl	acyl	H	Br	NH_2
acyl	acyl	H	Br	NH-cyclopropyl
acyl	acyl	H	Br	NH-methyl
acyl	acyl	H	Br	NH-ethyl
acyl	acyl	H	Br	NH-acetyl
acyl	acyl	H	Br	OH
acyl	acyl	H	Br	OMe
acyl	acyl	H	Br	OEt
acyl	acyl	H	Br	O-cyclopropyl
acyl	acyl	H	Br	O-acetyl
acyl	acyl	H	Br	SH
acyl	acyl	H	Br	SMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	Br	SEt
acyl	acyl	H	Br	S-cyclopropyl
acyl	acyl	H	Br	F
acyl	acyl	H	Br	Cl
acyl	acyl	H	Br	Br
acyl	acyl	H	Br	I
acyl	amino acid	H	Br	H
acyl	amino acid	H	Br	NH_2
acyl	amino acid	H	Br	NH-cyclopropyl
acyl	amino acid	H	Br	NH-methyl
acyl	amino acid	H	Br	NH-ethyl
acyl	amino acid	H	Br	NH-acetyl
acyl	amino acid	H	Br	OH
acyl	amino acid	H	Br	OMe
acyl	amino acid	H	Br	OEt
acyl	amino acid	H	Br	O-cyclopropyl
acyl	amino acid	H	Br	O-acetyl
acyl	amino acid	H	Br	SH
acyl	amino acid	H	Br	SMe
acyl	amino acid	H	Br	SEt
acyl	amino acid	H	Br	S-cyclopropyl
acyl	amino acid	H	Br	F
acyl	amino acid	H	Br	Cl
acyl	amino acid	H	Br	Br
acyl	amino acid	H	Br	I
H	acyl	H	Br	H
H	acyl	H	Br	NH_2
H	acyl	H	Br	NH-cyclopropyl
H	acyl	H	Br	NH-methyl
H	acyl	H	Br	NH-ethyl
H	acyl	H	Br	NH-acetyl
H	acyl	H	Br	OH
H	acyl	H	Br	OMe
H	acyl	H	Br	OEt
H	acyl	H	Br	O-cyclopropyl
H	acyl	H	Br	O-acetyl
H	acyl	H	Br	SH
H	acyl	H	Br	SMe
H	acyl	H	Br	SEt
H	acyl	H	Br	S-cyclopropyl
H	acyl	H	Br	F
H	acyl	H	Br	Cl
H	acyl	H	Br	Br
H	acyl	H	Br	I
H	amino acid	H	Br	H
H	amino acid	H	Br	NH_2
H	amino acid	H	Br	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Br	NH-methyl
H	amino acid	H	Br	NH-ethyl
H	amino acid	H	Br	NH-acetyl
H	amino acid	H	Br	OH
H	amino acid	H	Br	OMe
H	amino acid	H	Br	OEt
H	amino acid	H	Br	O-cyclopropyl
H	amino acid	H	Br	O-acetyl
H	amino acid	H	Br	SH
H	amino acid	H	Br	SMe
H	amino acid	H	Br	SEt
H	amino acid	H	Br	S-cyclopropyl
H	amino acid	H	Br	F
H	amino acid	H	Br	Cl
H	amino acid	H	Br	Br
H	amino acid	H	Br	I
amino acid	amino acid	H	Br	H
amino acid	amino acid	H	Br	NH_2
amino acid	amino acid	H	Br	NH-cyclopropyl
amino acid	amino acid	H	Br	NH-methyl
amino acid	amino acid	H	Br	NH-ethyl
amino acid	amino acid	H	Br	NH-acetyl
amino acid	amino acid	H	Br	OH
amino acid	amino acid	H	Br	OMe
amino acid	amino acid	H	Br	OEt
amino acid	amino acid	H	Br	O-cyclopropyl
amino acid	amino acid	H	Br	O-acetyl
amino acid	amino acid	H	Br	SH
amino acid	amino acid	H	Br	SMe
amino acid	amino acid	H	Br	SEt
amino acid	amino acid	H	Br	S-cyclopropyl
amino acid	amino acid	H	Br	F
amino acid	amino acid	H	Br	Cl
amino acid	amino acid	H	Br	Br
amino acid	amino acid	H	Br	I
amino acid	H	H	Br	H
amino acid	H	H	Br	NH_2
amino acid	H	H	Br	NH-cyclopropyl
amino acid	H	H	Br	NH-methyl
amino acid	H	H	Br	NH-ethyl
amino acid	H	H	Br	NH-acetyl
amino acid	H	H	Br	OH
amino acid	H	H	Br	OMe
amino acid	H	H	Br	OEt
amino acid	H	H	Br	O-cyclopropyl
amino acid	H	H	Br	O-acetyl
amino acid	H	H	Br	SH

R^2	R^3	X^1	X^2	Y
amino acid	H	H	Br	SMe
amino acid	H	H	Br	SEt
amino acid	H	H	Br	S-cyclopropyl
amino acid	H	H	Br	F
amino acid	H	H	Br	Cl
amino acid	H	H	Br	Br
amino acid	H	H	Br	I
amino acid	acyl	H	Br	H
amino acid	acyl	H	Br	NH_2
amino acid	acyl	H	Br	NH-cyclopropyl
amino acid	acyl	H	Br	NH-methyl
amino acid	acyl	H	Br	NH-ethyl
amino acid	acyl	H	Br	NH-acetyl
amino acid	acyl	H	Br	OH
amino acid	acyl	H	Br	OMe
amino acid	acyl	H	Br	OEt
amino acid	acyl	H	Br	O-cyclopropyl
amino acid	acyl	H	Br	O-acetyl
amino acid	acyl	H	Br	SH
amino acid	acyl	H	Br	SMe
amino acid	acyl	H	Br	SEt
amino acid	acyl	H	Br	S-cyclopropyl
amino acid	acyl	H	Br	F
amino acid	acyl	H	Br	Cl
amino acid	acyl	H	Br	Br
amino acid	acyl	H	Br	I
acyl	H	Cl	Br	H
acyl	H	Cl	Br	NH_2
acyl	H	Cl	Br	NH-cyclopropyl
acyl	H	Cl	Br	NH-methyl
acyl	H	Cl	Br	NH-ethyl
acyl	H	Cl	Br	NH-acetyl
acyl	H	Cl	Br	OH
acyl	H	Cl	Br	OMe
acyl	H	Cl	Br	OEt
acyl	H	Cl	Br	O-cyclopropyl
acyl	H	Cl	Br	O-acetyl
acyl	H	Cl	Br	SH
acyl	H	Cl	Br	SMe
acyl	H	Cl	Br	SEt
acyl	H	Cl	Br	S-cyclopropyl
acyl	H	Cl	Br	F
acyl	H	Cl	Br	Cl
acyl	H	Cl	Br	Br
acyl	H	Cl	Br	I
acyl	acyl	Cl	Br	H
acyl	acyl	Cl	Br	NH_2

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	Br	NH-cyclopropyl
acyl	acyl	Cl	Br	NH-methyl
acyl	acyl	Cl	Br	NH-ethyl
acyl	acyl	Cl	Br	NH-acetyl
acyl	acyl	Cl	Br	OH
acyl	acyl	Cl	Br	OMe
acyl	acyl	Cl	Br	OEt
acyl	acyl	Cl	Br	O-cyclopropyl
acyl	acyl	Cl	Br	O-acetyl
acyl	acyl	Cl	Br	SH
acyl	acyl	Cl	Br	SMe
acyl	acyl	Cl	Br	SEt
acyl	acyl	Cl	Br	S-cyclopropyl
acyl	acyl	Cl	Br	F
acyl	acyl	Cl	Br	Cl
acyl	acyl	Cl	Br	Br
acyl	acyl	Cl	Br	I
acyl	amino acid	Cl	Br	H
acyl	amino acid	Cl	Br	NH_2
acyl	amino acid	Cl	Br	NH-cyclopropyl
acyl	amino acid	Cl	Br	NH-methyl
acyl	amino acid	Cl	Br	NH-ethyl
acyl	amino acid	Cl	Br	NH-acetyl
acyl	amino acid	Cl	Br	OH
acyl	amino acid	Cl	Br	OMe
acyl	amino acid	Cl	Br	OEt
acyl	amino acid	Cl	Br	O-cyclopropyl
acyl	amino acid	Cl	Br	O-acetyl
acyl	amino acid	Cl	Br	SH
acyl	amino acid	Cl	Br	SMe
acyl	amino acid	Cl	Br	SEt
acyl	amino acid	Cl	Br	S-cyclopropyl
acyl	amino acid	Cl	Br	F
acyl	amino acid	Cl	Br	Cl
acyl	amino acid	Cl	Br	Br
acyl	amino acid	Cl	Br	I
H	acyl	Cl	Br	H
H	acyl	Cl	Br	NH_2
H	acyl	Cl	Br	NH-cyclopropyl
H	acyl	Cl	Br	NH-methyl
H	acyl	Cl	Br	NH-ethyl
H	acyl	Cl	Br	NH-acetyl
H	acyl	Cl	Br	OH
H	acyl	Cl	Br	OMe
H	acyl	Cl	Br	OEt
H	acyl	Cl	Br	O-cyclopropyl
H	acyl	Cl	Br	O-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Br	SH
H	acyl	Cl	Br	SMe
H	acyl	Cl	Br	SEt
H	acyl	Cl	Br	S-cyclopropyl
H	acyl	Cl	Br	F
H	acyl	Cl	Br	Cl
H	acyl	Cl	Br	Br
H	acyl	Cl	Br	I
H	amino acid	Cl	Br	H
H	amino acid	Cl	Br	NH_2
H	amino acid	Cl	Br	NH-cyclopropyl
H	amino acid	Cl	Br	NH-methyl
H	amino acid	Cl	Br	NH-ethyl
H	amino acid	Cl	Br	NH-acetyl
H	amino acid	Cl	Br	OH
H	amino acid	Cl	Br	OMe
H	amino acid	Cl	Br	OEt
H	amino acid	Cl	Br	O-cyclopropyl
H	amino acid	Cl	Br	O-acetyl
H	amino acid	Cl	Br	SH
H	amino acid	Cl	Br	SMe
H	amino acid	Cl	Br	SEt
H	amino acid	Cl	Br	S-cyclopropyl
H	amino acid	Cl	Br	F
H	amino acid	Cl	Br	Cl
H	amino acid	Cl	Br	Br
H	amino acid	Cl	Br	I
amino acid	amino acid	Cl	Br	H
amino acid	amino acid	Cl	Br	NH_2
amino acid	amino acid	Cl	Br	NH-cyclopropyl
amino acid	amino acid	Cl	Br	NH-methyl
amino acid	amino acid	Cl	Br	NH-ethyl
amino acid	amino acid	Cl	Br	NH-acetyl
amino acid	amino acid	Cl	Br	OH
amino acid	amino acid	Cl	Br	OMe
amino acid	amino acid	Cl	Br	OEt
amino acid	amino acid	Cl	Br	O-cyclopropyl
amino acid	amino acid	Cl	Br	O-acetyl
amino acid	amino acid	Cl	Br	SH
amino acid	amino acid	Cl	Br	SMe
amino acid	amino acid	Cl	Br	SEt
amino acid	amino acid	Cl	Br	S-cyclopropyl
amino acid	amino acid	Cl	Br	F
amino acid	amino acid	Cl	Br	Cl
amino acid	amino acid	Cl	Br	Br
amino acid	amino acid	Cl	Br	I
amino acid	H	Cl	Br	H

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	Br	NH_2
amino acid	H	Cl	Br	NH-cyclopropyl
amino acid	H	Cl	Br	NH-methyl
amino acid	H	Cl	Br	NH-ethyl
amino acid	H	Cl	Br	NH-acetyl
amino acid	H	Cl	Br	OH
amino acid	H	Cl	Br	OMe
amino acid	H	Cl	Br	OEt
amino acid	H	Cl	Br	O-cyclopropyl
amino acid	H	Cl	Br	O-acetyl
amino acid	H	Cl	Br	SH
amino acid	H	Cl	Br	SMe
amino acid	H	Cl	Br	SEt
amino acid	H	Cl	Br	S-cyclopropyl
amino acid	H	Cl	Br	F
amino acid	H	Cl	Br	Cl
amino acid	H	Cl	Br	Br
amino acid	H	Cl	Br	I
amino acid	acyl	Cl	Br	H
amino acid	acyl	Cl	Br	NH_2
amino acid	acyl	Cl	Br	NH-cyclopropyl
amino acid	acyl	Cl	Br	NH-methyl
amino acid	acyl	Cl	Br	NH-ethyl
amino acid	acyl	Cl	Br	NH-acetyl
amino acid	acyl	Cl	Br	OH
amino acid	acyl	Cl	Br	OMe
amino acid	acyl	Cl	Br	OEt
amino acid	acyl	Cl	Br	O-cyclopropyl
amino acid	acyl	Cl	Br	O-acetyl
amino acid	acyl	Cl	Br	SH
amino acid	acyl	Cl	Br	SMe
amino acid	acyl	Cl	Br	SEt
amino acid	acyl	Cl	Br	S-cyclopropyl
amino acid	acyl	Cl	Br	F
amino acid	acyl	Cl	Br	Cl
amino acid	acyl	Cl	Br	Br
amino acid	acyl	Cl	Br	I
acyl	H	Br	Cl	H
acyl	H	Br	Cl	NH_2
acyl	H	Br	Cl	NH-cyclopropyl
acyl	H	Br	Cl	NH-methyl
acyl	H	Br	Cl	NH-ethyl
acyl	H	Br	Cl	NH-acetyl
acyl	H	Br	Cl	OH
acyl	H	Br	Cl	OMe
acyl	H	Br	Cl	OEt
acyl	H	Br	Cl	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	Br	Cl	O-acetyl
acyl	H	Br	Cl	SH
acyl	H	Br	Cl	SMe
acyl	H	Br	Cl	SEt
acyl	H	Br	Cl	S-cyclopropyl
acyl	H	Br	Cl	F
acyl	H	Br	Cl	Cl
acyl	H	Br	Cl	Br
acyl	H	Br	Cl	I
acyl	acyl	Br	Cl	H
acyl	acyl	Br	Cl	NH_2
acyl	acyl	Br	Cl	NH-cyclopropyl
acyl	acyl	Br	Cl	NH-methyl
acyl	acyl	Br	Cl	NH-ethyl
acyl	acyl	Br	Cl	NH-acetyl
acyl	acyl	Br	Cl	OH
acyl	acyl	Br	Cl	OMe
acyl	acyl	Br	Cl	OEt
acyl	acyl	Br	Cl	O-cyclopropyl
acyl	acyl	Br	Cl	O-acetyl
acyl	acyl	Br	Cl	SH
acyl	acyl	Br	Cl	SMe
acyl	acyl	Br	Cl	SEt
acyl	acyl	Br	Cl	S-cyclopropyl
acyl	acyl	Br	Cl	F
acyl	acyl	Br	Cl	Cl
acyl	acyl	Br	Cl	Br
acyl	acyl	Br	Cl	I
acyl	amino acid	Br	Cl	H
acyl	amino acid	Br	Cl	NH_2
acyl	amino acid	Br	Cl	NH-cyclopropyl
acyl	amino acid	Br	Cl	NH-methyl
acyl	amino acid	Br	Cl	NH-ethyl
acyl	amino acid	Br	Cl	NH-acetyl
acyl	amino acid	Br	Cl	OH
acyl	amino acid	Br	Cl	OMe
acyl	amino acid	Br	Cl	OEt
acyl	amino acid	Br	Cl	O-cyclopropyl
acyl	amino acid	Br	Cl	O-acetyl
acyl	amino acid	Br	Cl	SH
acyl	amino acid	Br	Cl	SMe
acyl	amino acid	Br	Cl	SEt
acyl	amino acid	Br	Cl	S-cyclopropyl
acyl	amino acid	Br	Cl	F
acyl	amino acid	Br	Cl	Cl
acyl	amino acid	Br	Cl	Br
acyl	amino acid	Br	Cl	I

R^2	R^3	X^1	X^2	Y
H	acyl	Br	Cl	H
H	acyl	Br	Cl	NH_2
H	acyl	Br	Cl	NH-cyclopropyl
H	acyl	Br	Cl	NH-methyl
H	acyl	Br	Cl	NH-ethyl
H	acyl	Br	Cl	NH-acetyl
H	acyl	Br	Cl	OH
H	acyl	Br	Cl	OMe
H	acyl	Br	Cl	OEt
H	acyl	Br	Cl	O-cyclopropyl
H	acyl	Br	Cl	O-acetyl
H	acyl	Br	Cl	SH
H	acyl	Br	Cl	SMe
H	acyl	Br	Cl	SEt
H	acyl	Br	Cl	S-cyclopropyl
H	acyl	Br	Cl	F
H	acyl	Br	Cl	Cl
H	acyl	Br	Cl	Br
H	acyl	Br	Cl	I
H	amino acid	Br	Cl	H
H	amino acid	Br	Cl	NH_2
H	amino acid	Br	Cl	NH-cyclopropyl
H	amino acid	Br	Cl	NH-methyl
H	amino acid	Br	Cl	NH-ethyl
H	amino acid	Br	Cl	NH-acetyl
H	amino acid	Br	Cl	OH
H	amino acid	Br	Cl	OMe
H	amino acid	Br	Cl	OEt
H	amino acid	Br	Cl	O-cyclopropyl
H	amino acid	Br	Cl	O-acetyl
H	amino acid	Br	Cl	SH
H	amino acid	Br	Cl	SMe
H	amino acid	Br	Cl	SEt
H	amino acid	Br	Cl	S-cyclopropyl
H	amino acid	Br	Cl	F
H	amino acid	Br	Cl	Cl
H	amino acid	Br	Cl	Br
H	amino acid	Br	Cl	I
amino acid	amino acid	Br	Cl	H
amino acid	amino acid	Br	Cl	NH_2
amino acid	amino acid	Br	Cl	NH-cyclopropyl
amino acid	amino acid	Br	Cl	NH-methyl
amino acid	amino acid	Br	Cl	NH-ethyl
amino acid	amino acid	Br	Cl	NH-acetyl
amino acid	amino acid	Br	Cl	OH
amino acid	amino acid	Br	Cl	OMe
amino acid	amino acid	Br	Cl	OEt

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	Cl	O-cyclopropyl
amino acid	amino acid	Br	Cl	O-acetyl
amino acid	amino acid	Br	Cl	SH
amino acid	amino acid	Br	Cl	SMe
amino acid	amino acid	Br	Cl	SEt
amino acid	amino acid	Br	Cl	S-cyclopropyl
amino acid	amino acid	Br	Cl	F
amino acid	amino acid	Br	Cl	Cl
amino acid	amino acid	Br	Cl	Br
amino acid	amino acid	Br	Cl	I
amino acid	H	Br	Cl	H
amino acid	H	Br	Cl	NH_2
amino acid	H	Br	Cl	NH-cyclopropyl
amino acid	H	Br	Cl	NH-methyl
amino acid	H	Br	Cl	NH-ethyl
amino acid	H	Br	Cl	NH-acetyl
amino acid	H	Br	Cl	OH
amino acid	H	Br	Cl	OMe
amino acid	H	Br	Cl	OEt
amino acid	H	Br	Cl	O-cyclopropyl
amino acid	H	Br	Cl	O-acetyl
amino acid	H	Br	Cl	SH
amino acid	H	Br	Cl	SMe
amino acid	H	Br	Cl	SEt
amino acid	H	Br	Cl	S-cyclopropyl
amino acid	H	Br	Cl	F
amino acid	H	Br	Cl	Cl
amino acid	H	Br	Cl	Br
amino acid	H	Br	Cl	I
amino acid	acyl	Br	Cl	H
amino acid	acyl	Br	Cl	NH_2
amino acid	acyl	Br	Cl	NH-cyclopropyl
amino acid	acyl	Br	Cl	NH-methyl
amino acid	acyl	Br	Cl	NH-ethyl
amino acid	acyl	Br	Cl	NH-acetyl
amino acid	acyl	Br	Cl	OH
amino acid	acyl	Br	Cl	OMe
amino acid	acyl	Br	Cl	OEt
amino acid	acyl	Br	Cl	O-cyclopropyl
amino acid	acyl	Br	Cl	O-acetyl
amino acid	acyl	Br	Cl	SH
amino acid	acyl	Br	Cl	SMe
amino acid	acyl	Br	Cl	SEt
amino acid	acyl	Br	Cl	S-cyclopropyl
amino acid	acyl	Br	Cl	F
amino acid	acyl	Br	Cl	Cl
amino acid	acyl	Br	Cl	Br

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	Cl	I
acyl	H	H	Cl	H
acyl	H	H	Cl	NH_2
acyl	H	H	Cl	NH-cyclopropyl
acyl	H	H	Cl	NH-methyl
acyl	H	H	Cl	NH-ethyl
acyl	H	H	Cl	NH-acetyl
acyl	H	H	Cl	OH
acyl	H	H	Cl	OMe
acyl	H	H	Cl	OEt
acyl	H	H	Cl	O-cyclopropyl
acyl	H	H	Cl	O-acetyl
acyl	H	H	Cl	SH
acyl	H	H	Cl	SMe
acyl	H	H	Cl	SEt
acyl	H	H	Cl	S-cyclopropyl
acyl	H	H	Cl	F
acyl	H	H	Cl	Cl
acyl	H	H	Cl	Br
acyl	H	H	Cl	I
acyl	acyl	H	Cl	H
acyl	acyl	H	Cl	NH_2
acyl	acyl	H	Cl	NH-cyclopropyl
acyl	acyl	H	Cl	NH-methyl
acyl	acyl	H	Cl	NH-ethyl
acyl	acyl	H	Cl	NH-acetyl
acyl	acyl	H	Cl	OH
acyl	acyl	H	Cl	OMe
acyl	acyl	H	Cl	OEt
acyl	acyl	H	Cl	O-cyclopropyl
acyl	acyl	H	Cl	O-acetyl
acyl	acyl	H	Cl	SH
acyl	acyl	H	Cl	SMe
acyl	acyl	H	Cl	SEt
acyl	acyl	H	Cl	S-cyclopropyl
acyl	acyl	H	Cl	F
acyl	acyl	H	Cl	Cl
acyl	acyl	H	Cl	Br
acyl	acyl	H	Cl	I
acyl	amino acid	H	Cl	H
acyl	amino acid	H	Cl	NH_2
acyl	amino acid	H	Cl	NH-cyclopropyl
acyl	amino acid	H	Cl	NH-methyl
acyl	amino acid	H	Cl	NH-ethyl
acyl	amino acid	H	Cl	NH-acetyl
acyl	amino acid	H	Cl	OH
acyl	amino acid	H	Cl	OMe

R^2	R^3	X^1	X^2	Y
acyl	amino acid	H	Cl	OEt
acyl	amino acid	H	Cl	O-cyclopropyl
acyl	amino acid	H	Cl	O-acetyl
acyl	amino acid	H	Cl	SH
acyl	amino acid	H	Cl	SMe
acyl	amino acid	H	Cl	SEt
acyl	amino acid	H	Cl	S-cyclopropyl
acyl	amino acid	H	Cl	F
acyl	amino acid	H	Cl	Cl
acyl	amino acid	H	Cl	Br
acyl	amino acid	H	Cl	I
H	acyl	H	Cl	H
H	acyl	H	Cl	NH_2
H	acyl	H	Cl	NH-cyclopropyl
H	acyl	H	Cl	NH-methyl
H	acyl	H	Cl	NH-ethyl
H	acyl	H	Cl	NH-acetyl
H	acyl	H	Cl	OH
H	acyl	H	Cl	OMe
H	acyl	H	Cl	OEt
H	acyl	H	Cl	O-cyclopropyl
H	acyl	H	Cl	O-acetyl
H	acyl	H	Cl	SH
H	acyl	H	Cl	SMe
H	acyl	H	Cl	SEt
H	acyl	H	Cl	S-cyclopropyl
H	acyl	H	Cl	F
H	acyl	H	Cl	Cl
H	acyl	H	Cl	Br
H	acyl	H	Cl	I
H	amino acid	H	Cl	H
H	amino acid	H	Cl	NH_2
H	amino acid	H	Cl	NH-cyclopropyl
H	amino acid	H	Cl	NH-methyl
H	amino acid	H	Cl	NH-ethyl
H	amino acid	H	Cl	NH-acetyl
H	amino acid	H	Cl	OH
H	amino acid	H	Cl	OMe
H	amino acid	H	Cl	OEt
H	amino acid	H	Cl	O-cyclopropyl
H	amino acid	H	Cl	O-acetyl
H	amino acid	H	Cl	SH
H	amino acid	H	Cl	SMe
H	amino acid	H	Cl	SEt
H	amino acid	H	Cl	S-cyclopropyl
H	amino acid	H	Cl	F
H	amino acid	H	Cl	Cl

R^2	R^3	X^1	X^2	Y
H	amino acid	H	Cl	Br
H	amino acid	H	Cl	I
amino acid	amino acid	H	Cl	H
amino acid	amino acid	H	Cl	NH_2
amino acid	amino acid	H	Cl	NH-cyclopropyl
amino acid	amino acid	H	Cl	NH-methyl
amino acid	amino acid	H	Cl	NH-ethyl
amino acid	amino acid	H	Cl	NH-acetyl
amino acid	amino acid	H	Cl	OH
amino acid	amino acid	H	Cl	OMe
amino acid	amino acid	H	Cl	OEt
amino acid	amino acid	H	Cl	O-cyclopropyl
amino acid	amino acid	H	Cl	O-acetyl
amino acid	amino acid	H	Cl	SH
amino acid	amino acid	H	Cl	SMe
amino acid	amino acid	H	Cl	SEt
amino acid	amino acid	H	Cl	S-cyclopropyl
amino acid	amino acid	H	Cl	F
amino acid	amino acid	H	Cl	Cl
amino acid	amino acid	H	Cl	Br
amino acid	amino acid	H	Cl	I
amino acid	H	H	Cl	H
amino acid	H	H	Cl	NH_2
amino acid	H	H	Cl	NH-cyclopropyl
amino acid	H	H	Cl	NH-methyl
amino acid	H	H	Cl	NH-ethyl
amino acid	H	H	Cl	NH-acetyl
amino acid	H	H	Cl	OH
amino acid	H	H	Cl	OMe
amino acid	H	H	Cl	OEt
amino acid	H	H	Cl	O-cyclopropyl
amino acid	H	H	Cl	O-acetyl
amino acid	H	H	Cl	SH
amino acid	H	H	Cl	SMe
amino acid	H	H	Cl	SEt
amino acid	H	H	Cl	S-cyclopropyl
amino acid	H	H	Cl	F
amino acid	H	H	Cl	Cl
amino acid	H	H	Cl	Br
amino acid	H	H	Cl	I
amino acid	acyl	H	Cl	H
amino acid	acyl	H	Cl	NH_2
amino acid	acyl	H	Cl	NH-cyclopropyl
amino acid	acyl	H	Cl	NH-methyl
amino acid	acyl	H	Cl	NH-ethyl
amino acid	acyl	H	Cl	NH-acetyl
amino acid	acyl	H	Cl	OH

R^2	R^3	X^1	X^2	Y
amino acid	acyl	H	Cl	OMe
amino acid	acyl	H	Cl	OEt
amino acid	acyl	H	Cl	O-cyclopropyl
amino acid	acyl	H	Cl	O-acetyl
amino acid	acyl	H	Cl	SH
amino acid	acyl	H	Cl	SMe
amino acid	acyl	H	Cl	SEt
amino acid	acyl	H	Cl	S-cyclopropyl
amino acid	acyl	H	Cl	F
amino acid	acyl	H	Cl	Cl
amino acid	acyl	H	Cl	Br
amino acid	acyl	H	Cl	I
acyl	H	Cl	H	H
acyl	H	Cl	H	NH_2
acyl	H	Cl	H	NH-cyclopropyl
acyl	H	Cl	H	NH-methyl
acyl	H	Cl	H	NH-ethyl
acyl	H	Cl	H	NH-acetyl
acyl	H	Cl	H	OH
acyl	H	Cl	H	OMe
acyl	H	Cl	H	OEt
acyl	H	Cl	H	O-cyclopropyl
acyl	H	Cl	H	O-acetyl
acyl	H	Cl	H	SH
acyl	H	Cl	H	SMe
acyl	H	Cl	H	SEt
acyl	H	Cl	H	S-cyclopropyl
acyl	H	Cl	H	F
acyl	H	Cl	H	Cl
acyl	H	Cl	H	Br
acyl	H	Cl	H	I
acyl	acyl	Cl	H	H
acyl	acyl	Cl	H	NH_2
acyl	acyl	Cl	H	NH-cyclopropyl
acyl	acyl	Cl	H	NH-methyl
acyl	acyl	Cl	H	NH-ethyl
acyl	acyl	Cl	H	NH-acetyl
acyl	acyl	Cl	H	OH
acyl	acyl	Cl	H	OMe
acyl	acyl	Cl	H	OEt
acyl	acyl	Cl	H	O-cyclopropyl
acyl	acyl	Cl	H	O-acetyl
acyl	acyl	Cl	H	SH
acyl	acyl	Cl	H	SMe
acyl	acyl	Cl	H	SEt
acyl	acyl	Cl	H	S-cyclopropyl
acyl	acyl	Cl	H	F

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	H	Cl
acyl	acyl	Cl	H	Br
acyl	acyl	Cl	H	I
acyl	amino acid	Cl	H	H
acyl	amino acid	Cl	H	NH_2
acyl	amino acid	Cl	H	NH-cyclopropyl
acyl	amino acid	Cl	H	NH-methyl
acyl	amino acid	Cl	H	NH-ethyl
acyl	amino acid	Cl	H	NH-acetyl
acyl	amino acid	Cl	H	OH
acyl	amino acid	Cl	H	OMe
acyl	amino acid	Cl	H	OEt
acyl	amino acid	Cl	H	O-cyclopropyl
acyl	amino acid	Cl	H	O-acetyl
acyl	amino acid	Cl	H	SH
acyl	amino acid	Cl	H	SMe
acyl	amino acid	Cl	H	SEt
acyl	amino acid	Cl	H	S-cyclopropyl
acyl	amino acid	Cl	H	F
acyl	amino acid	Cl	H	Cl
acyl	amino acid	Cl	H	Br
acyl	amino acid	Cl	H	I
H	acyl	Cl	H	H
H	acyl	Cl	H	NH_2
H	acyl	Cl	H	NH-cyclopropyl
H	acyl	Cl	H	NH-methyl
H	acyl	Cl	H	NH-ethyl
H	acyl	Cl	H	NH-acetyl
H	acyl	Cl	H	OH
H	acyl	Cl	H	OMe
H	acyl	Cl	H	OEt
H	acyl	Cl	H	O-cyclopropyl
H	acyl	Cl	H	O-acetyl
H	acyl	Cl	H	SH
H	acyl	Cl	H	SMe
H	acyl	Cl	H	SEt
H	acyl	Cl	H	S-cyclopropyl
H	acyl	Cl	H	F
H	acyl	Cl	H	Cl
H	acyl	Cl	H	Br
H	acyl	Cl	H	I
H	amino acid	Cl	H	H
H	amino acid	Cl	H	NH_2
H	amino acid	Cl	H	NH-cyclopropyl
H	amino acid	Cl	H	NH-methyl
H	amino acid	Cl	H	NH-ethyl
H	amino acid	Cl	H	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	H	OH
H	amino acid	Cl	H	OMe
H	amino acid	Cl	H	OEt
H	amino acid	Cl	H	O-cyclopropyl
H	amino acid	Cl	H	O-acetyl
H	amino acid	Cl	H	SH
H	amino acid	Cl	H	SMe
H	amino acid	Cl	H	SEt
H	amino acid	Cl	H	S-cyclopropyl
H	amino acid	Cl	H	F
H	amino acid	Cl	H	Cl
H	amino acid	Cl	H	Br
H	amino acid	Cl	H	I
amino acid	amino acid	Cl	H	H
amino acid	amino acid	Cl	H	NH_2
amino acid	amino acid	Cl	H	NH-cyclopropyl
amino acid	amino acid	Cl	H	NH-methyl
amino acid	amino acid	Cl	H	NH-ethyl
amino acid	amino acid	Cl	H	NH-acetyl
amino acid	amino acid	Cl	H	OH
amino acid	amino acid	Cl	H	OMe
amino acid	amino acid	Cl	H	OEt
amino acid	amino acid	Cl	H	O-cyclopropyl
amino acid	amino acid	Cl	H	O-acetyl
amino acid	amino acid	Cl	H	SH
amino acid	amino acid	Cl	H	SMe
amino acid	amino acid	Cl	H	SEt
amino acid	amino acid	Cl	H	S-cyclopropyl
amino acid	amino acid	Cl	H	F
amino acid	amino acid	Cl	H	Cl
amino acid	amino acid	Cl	H	Br
amino acid	amino acid	Cl	H	I
amino acid	H	Cl	H	H
amino acid	H	Cl	H	NH_2
amino acid	H	Cl	H	NH-cyclopropyl
amino acid	H	Cl	H	NH-methyl
amino acid	H	Cl	H	NH-ethyl
amino acid	H	Cl	H	NH-acetyl
amino acid	H	Cl	H	OH
amino acid	H	Cl	H	OMe
amino acid	H	Cl	H	OEt
amino acid	H	Cl	H	O-cyclopropyl
amino acid	H	Cl	H	O-acetyl
amino acid	H	Cl	H	SH
amino acid	H	Cl	H	SMe
amino acid	H	Cl	H	SEt
amino acid	H	Cl	H	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	H	F
amino acid	H	Cl	H	Cl
amino acid	H	Cl	H	Br
amino acid	H	Cl	H	I
amino acid	acyl	Cl	H	H
amino acid	acyl	Cl	H	NH_2
amino acid	acyl	Cl	H	NH-cyclopropyl
amino acid	acyl	Cl	H	NH-methyl
amino acid	acyl	Cl	H	NH-ethyl
amino acid	acyl	Cl	H	NH-acetyl
amino acid	acyl	Cl	H	OH
amino acid	acyl	Cl	H	OMe
amino acid	acyl	Cl	H	OEt
amino acid	acyl	Cl	H	O-cyclopropyl
amino acid	acyl	Cl	H	O-acetyl
amino acid	acyl	Cl	H	SH
amino acid	acyl	Cl	H	SMe
amino acid	acyl	Cl	H	SEt
amino acid	acyl	Cl	H	S-cyclopropyl
amino acid	acyl	Cl	H	F
amino acid	acyl	Cl	H	Cl
amino acid	acyl	Cl	H	Br
amino acid	acyl	Cl	H	I
acyl	H	Cl	NH_2	H
acyl	H	Cl	NH_2	NH_2
acyl	H	Cl	NH_2	NH-cyclopropyl
acyl	H	Cl	NH_2	NH-methyl
acyl	H	Cl	NH_2	NH-ethyl
acyl	H	Cl	NH_2	NH-acetyl
acyl	H	Cl	NH_2	OH
acyl	H	Cl	NH_2	OMe
acyl	H	Cl	NH_2	OEt
acyl	H	Cl	NH_2	O-cyclopropyl
acyl	H	Cl	NH_2	O-acetyl
acyl	H	Cl	NH_2	SH
acyl	H	Cl	NH_2	SMe
acyl	H	Cl	NH_2	SEt
acyl	H	Cl	NH_2	S-cyclopropyl
acyl	H	Cl	NH_2	F
acyl	H	Cl	NH_2	Cl
acyl	H	Cl	NH_2	Br
acyl	H	Cl	NH_2	I
acyl	acyl	Cl	NH_2	H
acyl	acyl	Cl	NH_2	NH_2
acyl	acyl	Cl	NH_2	NH-cyclopropyl
acyl	acyl	Cl	NH_2	NH-methyl
acyl	acyl	Cl	NH_2	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	NH_2	NH-acetyl
acyl	acyl	Cl	NH_2	OH
acyl	acyl	Cl	NH_2	OMe
acyl	acyl	Cl	NH_2	OEt
acyl	acyl	Cl	NH_2	O-cyclopropyl
acyl	acyl	Cl	NH_2	O-acetyl
acyl	acyl	Cl	NH_2	SH
acyl	acyl	Cl	NH_2	SMe
acyl	acyl	Cl	NH_2	SEt
acyl	acyl	Cl	NH_2	S-cyclopropyl
acyl	acyl	Cl	NH_2	F
acyl	acyl	Cl	NH_2	Cl
acyl	acyl	Cl	NH_2	Br
acyl	acyl	Cl	NH_2	I
acyl	amino acid	Cl	NH_2	H
acyl	amino acid	Cl	NH_2	NH_2
acyl	amino acid	Cl	NH_2	NH-cyclopropyl
acyl	amino acid	Cl	NH_2	NH-methyl
acyl	amino acid	Cl	NH_2	NH-ethyl
acyl	amino acid	Cl	NH_2	NH-acetyl
acyl	amino acid	Cl	NH_2	OH
acyl	amino acid	Cl	NH_2	OMe
acyl	amino acid	Cl	NH_2	OEt
acyl	amino acid	Cl	NH_2	O-cyclopropyl
acyl	amino acid	Cl	NH_2	O-acetyl
acyl	amino acid	Cl	NH_2	SH
acyl	amino acid	Cl	NH_2	SMe
acyl	amino acid	Cl	NH_2	SEt
acyl	amino acid	Cl	NH_2	S-cyclopropyl
acyl	amino acid	Cl	NH_2	F
acyl	amino acid	Cl	NH_2	Cl
acyl	amino acid	Cl	NH_2	Br
acyl	amino acid	Cl	NH_2	I
H	acyl	Cl	NH_2	H
H	acyl	Cl	NH_2	NH_2
H	acyl	Cl	NH_2	NH-cyclopropyl
H	acyl	Cl	NH_2	NH-methyl
H	acyl	Cl	NH_2	NH-ethyl
H	acyl	Cl	NH_2	NH-acetyl
H	acyl	Cl	NH_2	OH
H	acyl	Cl	NH_2	OMe
H	acyl	Cl	NH_2	OEt
H	acyl	Cl	NH_2	O-cyclopropyl
H	acyl	Cl	NH_2	O-acetyl
H	acyl	Cl	NH_2	SH
H	acyl	Cl	NH_2	SMe
H	acyl	Cl	NH_2	SEt

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	NH_2	S-cyclopropyl
H	acyl	Cl	NH_2	F
H	acyl	Cl	NH_2	Cl
H	acyl	Cl	NH_2	Br
H	acyl	Cl	NH_2	I
H	amino acid	Cl	NH_2	H
H	amino acid	Cl	NH_2	NH_2
H	amino acid	Cl	NH_2	NH-cyclopropyl
H	amino acid	Cl	NH_2	NH-methyl
H	amino acid	Cl	NH_2	NH-ethyl
H	amino acid	Cl	NH_2	NH-acetyl
H	amino acid	Cl	NH_2	OH
H	amino acid	Cl	NH_2	OMe
H	amino acid	Cl	NH_2	OEt
H	amino acid	Cl	NH_2	O-cyclopropyl
H	amino acid	Cl	NH_2	O-acetyl
H	amino acid	Cl	NH_2	SH
H	amino acid	Cl	NH_2	SMe
H	amino acid	Cl	NH_2	SEt
H	amino acid	Cl	NH_2	S-cyclopropyl
H	amino acid	Cl	NH_2	F
H	amino acid	Cl	NH_2	Cl
H	amino acid	Cl	NH_2	Br
H	amino acid	Cl	NH_2	I
amino acid	amino acid	Cl	NH_2	H
amino acid	amino acid	Cl	NH_2	NH_2
amino acid	amino acid	Cl	NH_2	NH-cyclopropyl
amino acid	amino acid	Cl	NH_2	NH-methyl
amino acid	amino acid	Cl	NH_2	NH-ethyl
amino acid	amino acid	Cl	NH_2	NH-acetyl
amino acid	amino acid	Cl	NH_2	OH
amino acid	amino acid	Cl	NH_2	OMe
amino acid	amino acid	Cl	NH_2	OEt
amino acid	amino acid	Cl	NH_2	O-cyclopropyl
amino acid	amino acid	Cl	NH_2	O-acetyl
amino acid	amino acid	Cl	NH_2	SH
amino acid	amino acid	Cl	NH_2	SMe
amino acid	amino acid	Cl	NH_2	SEt
amino acid	amino acid	Cl	NH_2	S-cyclopropyl
amino acid	amino acid	Cl	NH_2	F
amino acid	amino acid	Cl	NH_2	Cl
amino acid	amino acid	Cl	NH_2	Br
amino acid	amino acid	Cl	NH_2	I
amino acid	H	Cl	NH_2	H
amino acid	H	Cl	NH_2	NH_2
amino acid	H	Cl	NH_2	NH-cyclopropyl
amino acid	H	Cl	NH_2	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	NH_2	NH-ethyl
amino acid	H	Cl	NH_2	NH-acetyl
amino acid	H	Cl	NH_2	OH
amino acid	H	Cl	NH_2	OMe
amino acid	H	Cl	NH_2	OEt
amino acid	H	Cl	NH_2	O-cyclopropyl
amino acid	H	Cl	NH_2	O-acetyl
amino acid	H	Cl	NH_2	SH
amino acid	H	Cl	NH_2	SMe
amino acid	H	Cl	NH_2	SEt
amino acid	H	Cl	NH_2	S-cyclopropyl
amino acid	H	Cl	NH_2	F
amino acid	H	Cl	NH_2	Cl
amino acid	H	Cl	NH_2	Br
amino acid	H	Cl	NH_2	I
amino acid	acyl	Cl	NH_2	H
amino acid	acyl	Cl	NH_2	NH_2
amino acid	acyl	Cl	NH_2	NH-cyclopropyl
amino acid	acyl	Cl	NH_2	NH-methyl
amino acid	acyl	Cl	NH_2	NH-ethyl
amino acid	acyl	Cl	NH_2	NH-acetyl
amino acid	acyl	Cl	NH_2	OH
amino acid	acyl	Cl	NH_2	OMe
amino acid	acyl	Cl	NH_2	OEt
amino acid	acyl	Cl	NH_2	O-cyclopropyl
amino acid	acyl	Cl	NH_2	O-acetyl
amino acid	acyl	Cl	NH_2	SH
amino acid	acyl	Cl	NH_2	SMe
amino acid	acyl	Cl	NH_2	SEt
amino acid	acyl	Cl	NH_2	S-cyclopropyl
amino acid	acyl	Cl	NH_2	F
amino acid	acyl	Cl	NH_2	Cl
amino acid	acyl	Cl	NH_2	Br
amino acid	acyl	Cl	NH_2	I
acyl	H	SH	NH_2	H
acyl	H	SH	NH_2	NH_2
acyl	H	SH	NH_2	NH-cyclopropyl
acyl	H	SH	NH_2	NH-methyl
acyl	H	SH	NH_2	NH-ethyl
acyl	H	SH	NH_2	NH-acetyl
acyl	H	SH	NH_2	OH
acyl	H	SH	NH_2	OMe
acyl	H	SH	NH_2	OEt
acyl	H	SH	NH_2	O-cyclopropyl
acyl	H	SH	NH_2	O-acetyl
acyl	H	SH	NH_2	SH
acyl	H	SH	NH_2	SMe

R^2	R^3	X^1	X^2	Y
acyl	H	SH	NH_2	SEt
acyl	H	SH	NH_2	S-cyclopropyl
acyl	H	SH	NH_2	F
acyl	H	SH	NH_2	Cl
acyl	H	SH	NH_2	Br
acyl	H	SH	NH_2	I
acyl	acyl	SH	NH_2	H
acyl	acyl	SH	NH_2	NH_2
acyl	acyl	SH	NH_2	NH-cyclopropyl
acyl	acyl	SH	NH_2	NH-methyl
acyl	acyl	SH	NH_2	NH-ethyl
acyl	acyl	SH	NH_2	NH-acetyl
acyl	acyl	SH	NH_2	OH
acyl	acyl	SH	NH_2	OMe
acyl	acyl	SH	NH_2	OEt
acyl	acyl	SH	NH_2	O-cyclopropyl
acyl	acyl	SH	NH_2	O-acetyl
acyl	acyl	SH	NH_2	SH
acyl	acyl	SH	NH_2	SMe
acyl	acyl	SH	NH_2	SEt
acyl	acyl	SH	NH_2	S-cyclopropyl
acyl	acyl	SH	NH_2	F
acyl	acyl	SH	NH_2	Cl
acyl	acyl	SH	NH_2	Br
acyl	acyl	SH	NH_2	I
acyl	amino acid	SH	NH_2	H
acyl	amino acid	SH	NH_2	NH_2
acyl	amino acid	SH	NH_2	NH-cyclopropyl
acyl	amino acid	SH	NH_2	NH-methyl
acyl	amino acid	SH	NH_2	NH-ethyl
acyl	amino acid	SH	NH_2	NH-acetyl
acyl	amino acid	SH	NH_2	OH
acyl	amino acid	SH	NH_2	OMe
acyl	amino acid	SH	NH_2	OEt
acyl	amino acid	SH	NH_2	O-cyclopropyl
acyl	amino acid	SH	NH_2	O-acetyl
acyl	amino acid	SH	NH_2	SH
acyl	amino acid	SH	NH_2	SMe
acyl	amino acid	SH	NH_2	SEt
acyl	amino acid	SH	NH_2	S-cyclopropyl
acyl	amino acid	SH	NH_2	F
acyl	amino acid	SH	NH_2	Cl
acyl	amino acid	SH	NH_2	Br
acyl	amino acid	SH	NH_2	I
H	acyl	SH	NH_2	H
H	acyl	SH	NH_2	NH_2
H	acyl	SH	NH_2	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	SH	NH_2	NH-methyl
H	acyl	SH	NH_2	NH-ethyl
H	acyl	SH	NH_2	NH-acetyl
H	acyl	SH	NH_2	OH
H	acyl	SH	NH_2	OMe
H	acyl	SH	NH_2	OEt
H	acyl	SH	NH_2	O-cyclopropyl
H	acyl	SH	NH_2	O-acetyl
H	acyl	SH	NH_2	SH
H	acyl	SH	NH_2	SMe
H	acyl	SH	NH_2	SEt
H	acyl	SH	NH_2	S-cyclopropyl
H	acyl	SH	NH_2	F
H	acyl	SH	NH_2	Cl
H	acyl	SH	NH_2	Br
H	acyl	SH	NH_2	I
H	amino acid	SH	NH_2	H
H	amino acid	SH	NH_2	NH_2
H	amino acid	SH	NH_2	NH-cyclopropyl
H	amino acid	SH	NH_2	NH-methyl
H	amino acid	SH	NH_2	NH-ethyl
H	amino acid	SH	NH_2	NH-acetyl
H	amino acid	SH	NH_2	OH
H	amino acid	SH	NH_2	OMe
H	amino acid	SH	NH_2	OEt
H	amino acid	SH	NH_2	O-cyclopropyl
H	amino acid	SH	NH_2	O-acetyl
H	amino acid	SH	NH_2	SH
H	amino acid	SH	NH_2	SMe
H	amino acid	SH	NH_2	SEt
H	amino acid	SH	NH_2	S-cyclopropyl
H	amino acid	SH	NH_2	F
H	amino acid	SH	NH_2	Cl
H	amino acid	SH	NH_2	Br
H	amino acid	SH	NH_2	I
amino acid	amino acid	SH	NH_2	H
amino acid	amino acid	SH	NH_2	NH_2
amino acid	amino acid	SH	NH_2	NH-cyclopropyl
amino acid	amino acid	SH	NH_2	NH-methyl
amino acid	amino acid	SH	NH_2	NH-ethyl
amino acid	amino acid	SH	NH_2	NH-acetyl
amino acid	amino acid	SH	NH_2	OH
amino acid	amino acid	SH	NH_2	OMe
amino acid	amino acid	SH	NH_2	OEt
amino acid	amino acid	SH	NH_2	O-cyclopropyl
amino acid	amino acid	SH	NH_2	O-acetyl
amino acid	amino acid	SH	NH_2	SH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	NH_2	SMe
amino acid	amino acid	SH	NH_2	SEt
amino acid	amino acid	SH	NH_2	S-cyclopropyl
amino acid	amino acid	SH	NH_2	F
amino acid	amino acid	SH	NH_2	Cl
amino acid	amino acid	SH	NH_2	Br
amino acid	amino acid	SH	NH_2	I
amino acid	H	SH	NH_2	H
amino acid	H	SH	NH_2	NH_2
amino acid	H	SH	NH_2	NH-cyclopropyl
amino acid	H	SH	NH_2	NH-methyl
amino acid	H	SH	NH_2	NH-ethyl
amino acid	H	SH	NH_2	NH-acetyl
amino acid	H	SH	NH_2	OH
amino acid	H	SH	NH_2	OMe
amino acid	H	SH	NH_2	OEt
amino acid	H	SH	NH_2	O-cyclopropyl
amino acid	H	SH	NH_2	O-acetyl
amino acid	H	SH	NH_2	SH
amino acid	H	SH	NH_2	SMe
amino acid	H	SH	NH_2	SEt
amino acid	H	SH	NH_2	S-cyclopropyl
amino acid	H	SH	NH_2	F
amino acid	H	SH	NH_2	Cl
amino acid	H	SH	NH_2	Br
amino acid	H	SH	NH_2	I
amino acid	acyl	SH	NH_2	H
amino acid	acyl	SH	NH_2	NH_2
amino acid	acyl	SH	NH_2	NH-cyclopropyl
amino acid	acyl	SH	NH_2	NH-methyl
amino acid	acyl	SH	NH_2	NH-ethyl
amino acid	acyl	SH	NH_2	NH-acetyl
amino acid	acyl	SH	NH_2	OH
amino acid	acyl	SH	NH_2	OMe
amino acid	acyl	SH	NH_2	OEt
amino acid	acyl	SH	NH_2	O-cyclopropyl
amino acid	acyl	SH	NH_2	O-acetyl
amino acid	acyl	SH	NH_2	SH
amino acid	acyl	SH	NH_2	SMe
amino acid	acyl	SH	NH_2	SEt
amino acid	acyl	SH	NH_2	S-cyclopropyl
amino acid	acyl	SH	NH_2	F
amino acid	acyl	SH	NH_2	Cl
amino acid	acyl	SH	NH_2	Br
amino acid	acyl	SH	NH_2	I
acyl	H	Br	NH_2	H
acyl	H	Br	NH_2	NH_2

R^2	R^3	X^1	X^2	Y
acyl	H	Br	NH_2	NH-cyclopropyl
acyl	H	Br	NH_2	NH-methyl
acyl	H	Br	NH_2	NH-ethyl
acyl	H	Br	NH_2	NH-acetyl
acyl	H	Br	NH_2	OH
acyl	H	Br	NH_2	OMe
acyl	H	Br	NH_2	OEt
acyl	H	Br	NH_2	O-cyclopropyl
acyl	H	Br	NH_2	O-acetyl
acyl	H	Br	NH_2	SH
acyl	H	Br	NH_2	SMe
acyl	H	Br	NH_2	SEt
acyl	H	Br	NH_2	S-cyclopropyl
acyl	H	Br	NH_2	F
acyl	H	Br	NH_2	Cl
acyl	H	Br	NH_2	Br
acyl	H	Br	NH_2	I
acyl	acyl	Br	NH_2	H
acyl	acyl	Br	NH_2	NH_2
acyl	acyl	Br	NH_2	NH-cyclopropyl
acyl	acyl	Br	NH_2	NH-methyl
acyl	acyl	Br	NH_2	NH-ethyl
acyl	acyl	Br	NH_2	NH-acetyl
acyl	acyl	Br	NH_2	OH
acyl	acyl	Br	NH_2	OMe
acyl	acyl	Br	NH_2	OEt
acyl	acyl	Br	NH_2	O-cyclopropyl
acyl	acyl	Br	NH_2	O-acetyl
acyl	acyl	Br	NH_2	SH
acyl	acyl	Br	NH_2	SMe
acyl	acyl	Br	NH_2	SEt
acyl	acyl	Br	NH_2	S-cyclopropyl
acyl	acyl	Br	NH_2	F
acyl	acyl	Br	NH_2	Cl
acyl	acyl	Br	NH_2	Br
acyl	acyl	Br	NH_2	I
acyl	amino acid	Br	NH_2	H
acyl	amino acid	Br	NH_2	NH_2
acyl	amino acid	Br	NH_2	NH-cyclopropyl
acyl	amino acid	Br	NH_2	NH-methyl
acyl	amino acid	Br	NH_2	NH-ethyl
acyl	amino acid	Br	NH_2	NH-acetyl
acyl	amino acid	Br	NH_2	OH
acyl	amino acid	Br	NH_2	OMe
acyl	amino acid	Br	NH_2	OEt
acyl	amino acid	Br	NH_2	O-cyclopropyl
acyl	amino acid	Br	NH_2	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	NH_2	SH
acyl	amino acid	Br	NH_2	SMe
acyl	amino acid	Br	NH_2	SEt
acyl	amino acid	Br	NH_2	S-cyclopropyl
acyl	amino acid	Br	NH_2	F
acyl	amino acid	Br	NH_2	Cl
acyl	amino acid	Br	NH_2	Br
acyl	amino acid	Br	NH_2	I
H	acyl	Br	NH_2	H
H	acyl	Br	NH_2	NH_2
H	acyl	Br	NH_2	NH-cyclopropyl
H	acyl	Br	NH_2	NH-methyl
H	acyl	Br	NH_2	NH-ethyl
H	acyl	Br	NH_2	NH-acetyl
H	acyl	Br	NH_2	OH
H	acyl	Br	NH_2	OMe
H	acyl	Br	NH_2	OEt
H	acyl	Br	NH_2	O-cyclopropyl
H	acyl	Br	NH_2	O-acetyl
H	acyl	Br	NH_2	SH
H	acyl	Br	NH_2	SMe
H	acyl	Br	NH_2	SEt
H	acyl	Br	NH_2	S-cyclopropyl
H	acyl	Br	NH_2	F
H	acyl	Br	NH_2	Cl
H	acyl	Br	NH_2	Br
H	acyl	Br	NH_2	I
H	amino acid	Br	NH_2	H
H	amino acid	Br	NH_2	NH_2
H	amino acid	Br	NH_2	NH-cyclopropyl
H	amino acid	Br	NH_2	NH-methyl
H	amino acid	Br	NH_2	NH-ethyl
H	amino acid	Br	NH_2	NH-acetyl
H	amino acid	Br	NH_2	OH
H	amino acid	Br	NH_2	OMe
H	amino acid	Br	NH_2	OEt
H	amino acid	Br	NH_2	O-cyclopropyl
H	amino acid	Br	NH_2	O-acetyl
H	amino acid	Br	NH_2	SH
H	amino acid	Br	NH_2	SMe
H	amino acid	Br	NH_2	SEt
H	amino acid	Br	NH_2	S-cyclopropyl
H	amino acid	Br	NH_2	F
H	amino acid	Br	NH_2	Cl
H	amino acid	Br	NH_2	Br
H	amino acid	Br	NH_2	I
amino acid	amino acid	Br	NH_2	H

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	NH_2	NH_2
amino acid	amino acid	Br	NH_2	NH-cyclopropyl
amino acid	amino acid	Br	NH_2	NH-methyl
amino acid	amino acid	Br	NH_2	NH-ethyl
amino acid	amino acid	Br	NH_2	NH-acetyl
amino acid	amino acid	Br	NH_2	OH
amino acid	amino acid	Br	NH_2	OMe
amino acid	amino acid	Br	NH_2	OEt
amino acid	amino acid	Br	NH_2	O-cyclopropyl
amino acid	amino acid	Br	NH_2	O-acetyl
amino acid	amino acid	Br	NH_2	SH
amino acid	amino acid	Br	NH_2	SMe
amino acid	amino acid	Br	NH_2	SEt
amino acid	amino acid	Br	NH_2	S-cyclopropyl
amino acid	amino acid	Br	NH_2	F
amino acid	amino acid	Br	NH_2	Cl
amino acid	amino acid	Br	NH_2	Br
amino acid	amino acid	Br	NH_2	I
amino acid	H	Br	NH_2	H
amino acid	H	Br	NH_2	NH_2
amino acid	H	Br	NH_2	NH-cyclopropyl
amino acid	H	Br	NH_2	NH-methyl
amino acid	H	Br	NH_2	NH-ethyl
amino acid	H	Br	NH_2	NH-acetyl
amino acid	H	Br	NH_2	OH
amino acid	H	Br	NH_2	OMe
amino acid	H	Br	NH_2	OEt
amino acid	H	Br	NH_2	O-cyclopropyl
amino acid	H	Br	NH_2	O-acetyl
amino acid	H	Br	NH_2	SH
amino acid	H	Br	NH_2	SMe
amino acid	H	Br	NH_2	SEt
amino acid	H	Br	NH_2	S-cyclopropyl
amino acid	H	Br	NH_2	F
amino acid	H	Br	NH_2	Cl
amino acid	H	Br	NH_2	Br
amino acid	H	Br	NH_2	I
amino acid	acyl	Br	NH_2	H
amino acid	acyl	Br	NH_2	NH_2
amino acid	acyl	Br	NH_2	NH-cyclopropyl
amino acid	acyl	Br	NH_2	NH-methyl
amino acid	acyl	Br	NH_2	NH-ethyl
amino acid	acyl	Br	NH_2	NH-acetyl
amino acid	acyl	Br	NH_2	OH
amino acid	acyl	Br	NH_2	OMe
amino acid	acyl	Br	NH_2	OEt
amino acid	acyl	Br	NH_2	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	NH_2	O-acetyl
amino acid	acyl	Br	NH_2	SH
amino acid	acyl	Br	NH_2	SMe
amino acid	acyl	Br	NH_2	SEt
amino acid	acyl	Br	NH_2	S-cyclopropyl
amino acid	acyl	Br	NH_2	F
amino acid	acyl	Br	NH_2	Cl
amino acid	acyl	Br	NH_2	Br
amino acid	acyl	Br	NH_2	I
acyl	H	F	NH_2	H
acyl	H	F	NH_2	NH_2
acyl	H	F	NH_2	NH-cyclopropyl
acyl	H	F	NH_2	NH-methyl
acyl	H	F	NH_2	NH-ethyl
acyl	H	F	NH_2	NH-acetyl
acyl	H	F	NH_2	OH
acyl	H	F	NH_2	OMe
acyl	H	F	NH_2	OEt
acyl	H	F	NH_2	O-cyclopropyl
acyl	H	F	NH_2	O-acetyl
acyl	H	F	NH_2	SH
acyl	H	F	NH_2	SMe
acyl	H	F	NH_2	SEt
acyl	H	F	NH_2	S-cyclopropyl
acyl	H	F	NH_2	F
acyl	H	F	NH_2	Cl
acyl	H	F	NH_2	Br
acyl	H	F	NH_2	I
acyl	acyl	F	NH_2	H
acyl	acyl	F	NH_2	NH_2
acyl	acyl	F	NH_2	NH-cyclopropyl
acyl	acyl	F	NH_2	NH-methyl
acyl	acyl	F	NH_2	NH-ethyl
acyl	acyl	F	NH_2	NH-acetyl
acyl	acyl	F	NH_2	OH
acyl	acyl	F	NH_2	OMe
acyl	acyl	F	NH_2	OEt
acyl	acyl	F	NH_2	O-cyclopropyl
acyl	acyl	F	NH_2	O-acetyl
acyl	acyl	F	NH_2	SH
acyl	acyl	F	NH_2	SMe
acyl	acyl	F	NH_2	SEt
acyl	acyl	F	NH_2	S-cyclopropyl
acyl	acyl	F	NH_2	F
acyl	acyl	F	NH_2	Cl
acyl	acyl	F	NH_2	Br
acyl	acyl	F	NH_2	I

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	NH_2	H
acyl	amino acid	F	NH_2	NH_2
acyl	amino acid	F	NH_2	NH-cyclopropyl
acyl	amino acid	F	NH_2	NH-methyl
acyl	amino acid	F	NH_2	NH-ethyl
acyl	amino acid	F	NH_2	NH-acetyl
acyl	amino acid	F	NH_2	OH
acyl	amino acid	F	NH_2	OMe
acyl	amino acid	F	NH_2	OEt
acyl	amino acid	F	NH_2	O-cyclopropyl
acyl	amino acid	F	NH_2	O-acetyl
acyl	amino acid	F	NH_2	SH
acyl	amino acid	F	NH_2	SMe
acyl	amino acid	F	NH_2	SEt
acyl	amino acid	F	NH_2	S-cyclopropyl
acyl	amino acid	F	NH_2	F
acyl	amino acid	F	NH_2	Cl
acyl	amino acid	F	NH_2	Br
acyl	amino acid	F	NH_2	I
H	acyl	F	NH_2	H
H	acyl	F	NH_2	NH_2
H	acyl	F	NH_2	NH-cyclopropyl
H	acyl	F	NH_2	NH-methyl
H	acyl	F	NH_2	NH-ethyl
H	acyl	F	NH_2	NH-acetyl
H	acyl	F	NH_2	OH
H	acyl	F	NH_2	OMe
H	acyl	F	NH_2	OEt
H	acyl	F	NH_2	O-cyclopropyl
H	acyl	F	NH_2	O-acetyl
H	acyl	F	NH_2	SH
H	acyl	F	NH_2	SMe
H	acyl	F	NH_2	SEt
H	acyl	F	NH_2	S-cyclopropyl
H	acyl	F	NH_2	F
H	acyl	F	NH_2	Cl
H	acyl	F	NH_2	Br
H	acyl	F	NH_2	I
H	amino acid	F	NH_2	H
H	amino acid	F	NH_2	NH_2
H	amino acid	F	NH_2	NH-cyclopropyl
H	amino acid	F	NH_2	NH-methyl
H	amino acid	F	NH_2	NH-ethyl
H	amino acid	F	NH_2	NH-acetyl
H	amino acid	F	NH_2	OH
H	amino acid	F	NH_2	OMe
H	amino acid	F	NH_2	OEt

R^2	R^3	X^1	X^2	Y
H	amino acid	F	NH_2	O-cyclopropyl
H	amino acid	F	NH_2	O-acetyl
H	amino acid	F	NH_2	SH
H	amino acid	F	NH_2	SMe
H	amino acid	F	NH_2	SEt
H	amino acid	F	NH_2	S-cyclopropyl
H	amino acid	F	NH_2	F
H	amino acid	F	NH_2	Cl
H	amino acid	F	NH_2	Br
H	amino acid	F	NH_2	I
amino acid	amino acid	F	NH_2	H
amino acid	amino acid	F	NH_2	NH_2
amino acid	amino acid	F	NH_2	NH-cyclopropyl
amino acid	amino acid	F	NH_2	NH-methyl
amino acid	amino acid	F	NH_2	NH-ethyl
amino acid	amino acid	F	NH_2	NH-acetyl
amino acid	amino acid	F	NH_2	OH
amino acid	amino acid	F	NH_2	OMe
amino acid	amino acid	F	NH_2	OEt
amino acid	amino acid	F	NH_2	O-cyclopropyl
amino acid	amino acid	F	NH_2	O-acetyl
amino acid	amino acid	F	NH_2	SH
amino acid	amino acid	F	NH_2	SMe
amino acid	amino acid	F	NH_2	SEt
amino acid	amino acid	F	NH_2	S-cyclopropyl
amino acid	amino acid	F	NH_2	F
amino acid	amino acid	F	NH_2	Cl
amino acid	amino acid	F	NH_2	Br
amino acid	amino acid	F	NH_2	I
amino acid	H	F	NH_2	H
amino acid	H	F	NH_2	NH_2
amino acid	H	F	NH_2	NH-cyclopropyl
amino acid	H	F	NH_2	NH-methyl
amino acid	H	F	NH_2	NH-ethyl
amino acid	H	F	NH_2	NH-acetyl
amino acid	H	F	NH_2	OH
amino acid	H	F	NH_2	OMe
amino acid	H	F	NH_2	OEt
amino acid	H	F	NH_2	O-cyclopropyl
amino acid	H	F	NH_2	O-acetyl
amino acid	H	F	NH_2	SH
amino acid	H	F	NH_2	SMe
amino acid	H	F	NH_2	SEt
amino acid	H	F	NH_2	S-cyclopropyl
amino acid	H	F	NH_2	F
amino acid	H	F	NH_2	Cl
amino acid	H	F	NH_2	Br

R^2	R^3	X^1	X^2	Y
amino acid	H	F	NH_2	I
amino acid	acyl	F	NH_2	H
amino acid	acyl	F	NH_2	NH_2
amino acid	acyl	F	NH_2	NH-cyclopropyl
amino acid	acyl	F	NH_2	NH-methyl
amino acid	acyl	F	NH_2	NH-ethyl
amino acid	acyl	F	NH_2	NH-acetyl
amino acid	acyl	F	NH_2	OH
amino acid	acyl	F	NH_2	OMe
amino acid	acyl	F	NH_2	OEt
amino acid	acyl	F	NH_2	O-cyclopropyl
amino acid	acyl	F	NH_2	O-acetyl
amino acid	acyl	F	NH_2	SH
amino acid	acyl	F	NH_2	SMe
amino acid	acyl	F	NH_2	SEt
amino acid	acyl	F	NH_2	S-cyclopropyl
amino acid	acyl	F	NH_2	F
amino acid	acyl	F	NH_2	Cl
amino acid	acyl	F	NH_2	Br
amino acid	acyl	F	NH_2	I
acyl	H	NH_2	F	H
acyl	H	NH_2	F	NH_2
acyl	H	NH_2	F	NH-cyclopropyl
acyl	H	NH_2	F	NH-methyl
acyl	H	NH_2	F	NH-ethyl
acyl	H	NH_2	F	NH-acetyl
acyl	H	NH_2	F	OH
acyl	H	NH_2	F	OMe
acyl	H	NH_2	F	OEt
acyl	H	NH_2	F	O-cyclopropyl
acyl	H	NH_2	F	O-acetyl
acyl	H	NH_2	F	SH
acyl	H	NH_2	F	SMe
acyl	H	NH_2	F	SEt
acyl	H	NH_2	F	S-cyclopropyl
acyl	H	NH_2	F	F
acyl	H	NH_2	F	Cl
acyl	H	NH_2	F	Br
acyl	H	NH_2	F	I
acyl	acyl	NH_2	F	H
acyl	acyl	NH_2	F	NH_2
acyl	acyl	NH_2	F	NH-cyclopropyl
acyl	acyl	NH_2	F	NH-methyl
acyl	acyl	NH_2	F	NH-ethyl
acyl	acyl	NH_2	F	NH-acetyl
acyl	acyl	NH_2	F	OH
acyl	acyl	NH_2	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	acyl	NH_2	F	OEt
acyl	acyl	NH_2	F	O-cyclopropyl
acyl	acyl	NH_2	F	O-acetyl
acyl	acyl	NH_2	F	SH
acyl	acyl	NH_2	F	SMe
acyl	acyl	NH_2	F	SEt
acyl	acyl	NH_2	F	S-cyclopropyl
acyl	acyl	NH_2	F	F
acyl	acyl	NH_2	F	Cl
acyl	acyl	NH_2	F	Br
acyl	acyl	NH_2	F	I
acyl	amino acid	NH_2	F	H
acyl	amino acid	NH_2	F	NH_2
acyl	amino acid	NH_2	F	NH-cyclopropyl
acyl	amino acid	NH_2	F	NH-methyl
acyl	amino acid	NH_2	F	NH-ethyl
acyl	amino acid	NH_2	F	NH-acetyl
acyl	amino acid	NH_2	F	OH
acyl	amino acid	NH_2	F	OMe
acyl	amino acid	NH_2	F	OEt
acyl	amino acid	NH_2	F	O-cyclopropyl
acyl	amino acid	NH_2	F	O-acetyl
acyl	amino acid	NH_2	F	SH
acyl	amino acid	NH_2	F	SMe
acyl	amino acid	NH_2	F	SEt
acyl	amino acid	NH_2	F	S-cyclopropyl
acyl	amino acid	NH_2	F	F
acyl	amino acid	NH_2	F	Cl
acyl	amino acid	NH_2	F	Br
acyl	amino acid	NH_2	F	I
H	acyl	NH_2	F	H
H	acyl	NH_2	F	NH_2
H	acyl	NH_2	F	NH-cyclopropyl
H	acyl	NH_2	F	NH-methyl
H	acyl	NH_2	F	NH-ethyl
H	acyl	NH_2	F	NH-acetyl
H	acyl	NH_2	F	OH
H	acyl	NH_2	F	OMe
H	acyl	NH_2	F	OEt
H	acyl	NH_2	F	O-cyclopropyl
H	acyl	NH_2	F	O-acetyl
H	acyl	NH_2	F	SH
H	acyl	NH_2	F	SMe
H	acyl	NH_2	F	SEt
H	acyl	NH_2	F	S-cyclopropyl
H	acyl	NH_2	F	F
H	acyl	NH_2	F	Cl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	F	Br
H	acyl	NH_2	F	I
H	amino acid	NH_2	F	H
H	amino acid	NH_2	F	NH_2
H	amino acid	NH_2	F	NH-cyclopropyl
H	amino acid	NH_2	F	NH-methyl
H	amino acid	NH_2	F	NH-ethyl
H	amino acid	NH_2	F	NH-acetyl
H	amino acid	NH_2	F	OH
H	amino acid	NH_2	F	OMe
H	amino acid	NH_2	F	OEt
H	amino acid	NH_2	F	O-cyclopropyl
H	amino acid	NH_2	F	O-acetyl
H	amino acid	NH_2	F	SH
H	amino acid	NH_2	F	SMe
H	amino acid	NH_2	F	SEt
H	amino acid	NH_2	F	S-cyclopropyl
H	amino acid	NH_2	F	F
H	amino acid	NH_2	F	Cl
H	amino acid	NH_2	F	Br
H	amino acid	NH_2	F	I
amino acid	amino acid	NH_2	F	H
amino acid	amino acid	NH_2	F	NH_2
amino acid	amino acid	NH_2	F	NH-cyclopropyl
amino acid	amino acid	NH_2	F	NH-methyl
amino acid	amino acid	NH_2	F	NH-ethyl
amino acid	amino acid	NH_2	F	NH-acetyl
amino acid	amino acid	NH_2	F	OH
amino acid	amino acid	NH_2	F	OMe
amino acid	amino acid	NH_2	F	OEt
amino acid	amino acid	NH_2	F	O-cyclopropyl
amino acid	amino acid	NH_2	F	O-acetyl
amino acid	amino acid	NH_2	F	SH
amino acid	amino acid	NH_2	F	SMe
amino acid	amino acid	NH_2	F	SEt
amino acid	amino acid	NH_2	F	S-cyclopropyl
amino acid	amino acid	NH_2	F	F
amino acid	amino acid	NH_2	F	Cl
amino acid	amino acid	NH_2	F	Br
amino acid	amino acid	NH_2	F	I
amino acid	H	NH_2	F	H
amino acid	H	NH_2	F	NH_2
amino acid	H	NH_2	F	NH-cyclopropyl
amino acid	H	NH_2	F	NH-methyl
amino acid	H	NH_2	F	NH-ethyl
amino acid	H	NH_2	F	NH-acetyl
amino acid	H	NH_2	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	H	NH_2	F	OMe
amino acid	H	NH_2	F	OEt
amino acid	H	NH_2	F	O-cyclopropyl
amino acid	H	NH_2	F	O-acetyl
amino acid	H	NH_2	F	SH
amino acid	H	NH_2	F	SMe
amino acid	H	NH_2	F	SEt
amino acid	H	NH_2	F	S-cyclopropyl
amino acid	H	NH_2	F	F
amino acid	H	NH_2	F	Cl
amino acid	H	NH_2	F	Br
amino acid	H	NH_2	F	I
amino acid	acyl	NH_2	F	H
amino acid	acyl	NH_2	F	NH_2
amino acid	acyl	NH_2	F	NH-cyclopropyl
amino acid	acyl	NH_2	F	NH-methyl
amino acid	acyl	NH_2	F	NH-ethyl
amino acid	acyl	NH_2	F	NH-acetyl
amino acid	acyl	NH_2	F	OH
amino acid	acyl	NH_2	F	OMe
amino acid	acyl	NH_2	F	OEt
amino acid	acyl	NH_2	F	O-cyclopropyl
amino acid	acyl	NH_2	F	O-acetyl
amino acid	acyl	NH_2	F	SH
amino acid	acyl	NH_2	F	SMe
amino acid	acyl	NH_2	F	SEt
amino acid	acyl	NH_2	F	S-cyclopropyl
amino acid	acyl	NH_2	F	F
amino acid	acyl	NH_2	F	Cl
amino acid	acyl	NH_2	F	Br
amino acid	acyl	NH_2	F	I
acyl	H	NH_2	Br	H
acyl	H	NH_2	Br	NH_2
acyl	H	NH_2	Br	NH-cyclopropyl
acyl	H	NH_2	Br	NH-methyl
acyl	H	NH_2	Br	NH-ethyl
acyl	H	NH_2	Br	NH-acetyl
acyl	H	NH_2	Br	OH
acyl	H	NH_2	Br	OMe
acyl	H	NH_2	Br	OEt
acyl	H	NH_2	Br	O-cyclopropyl
acyl	H	NH_2	Br	O-acetyl
acyl	H	NH_2	Br	SH
acyl	H	NH_2	Br	SMe
acyl	H	NH_2	Br	SEt
acyl	H	NH_2	Br	S-cyclopropyl
acyl	H	NH_2	Br	F

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Br	Cl
acyl	H	NH_2	Br	Br
acyl	H	NH_2	Br	I
acyl	acyl	NH_2	Br	H
acyl	acyl	NH_2	Br	NH_2
acyl	acyl	NH_2	Br	NH-cyclopropyl
acyl	acyl	NH_2	Br	NH-methyl
acyl	acyl	NH_2	Br	NH-ethyl
acyl	acyl	NH_2	Br	NH-acetyl
acyl	acyl	NH_2	Br	OH
acyl	acyl	NH_2	Br	OMe
acyl	acyl	NH_2	Br	OEt
acyl	acyl	NH_2	Br	O-cyclopropyl
acyl	acyl	NH_2	Br	O-acetyl
acyl	acyl	NH_2	Br	SH
acyl	acyl	NH_2	Br	SMe
acyl	acyl	NH_2	Br	SEt
acyl	acyl	NH_2	Br	S-cyclopropyl
acyl	acyl	NH_2	Br	F
acyl	acyl	NH_2	Br	Cl
acyl	acyl	NH_2	Br	Br
acyl	acyl	NH_2	Br	I
acyl	amino acid	NH_2	Br	H
acyl	amino acid	NH_2	Br	NH_2
acyl	amino acid	NH_2	Br	NH-cyclopropyl
acyl	amino acid	NH_2	Br	NH-methyl
acyl	amino acid	NH_2	Br	NH-ethyl
acyl	amino acid	NH_2	Br	NH-acetyl
acyl	amino acid	NH_2	Br	OH
acyl	amino acid	NH_2	Br	OMe
acyl	amino acid	NH_2	Br	OEt
acyl	amino acid	NH_2	Br	O-cyclopropyl
acyl	amino acid	NH_2	Br	O-acetyl
acyl	amino acid	NH_2	Br	SH
acyl	amino acid	NH_2	Br	SMe
acyl	amino acid	NH_2	Br	SEt
acyl	amino acid	NH_2	Br	S-cyclopropyl
acyl	amino acid	NH_2	Br	F
acyl	amino acid	NH_2	Br	Cl
acyl	amino acid	NH_2	Br	Br
acyl	amino acid	NH_2	Br	I
H	acyl	NH_2	Br	H
H	acyl	NH_2	Br	NH_2
H	acyl	NH_2	Br	NH-cyclopropyl
H	acyl	NH_2	Br	NH-methyl
H	acyl	NH_2	Br	NH-ethyl
H	acyl	NH_2	Br	NH-acetyl

R^2	R^3	X^1	X^2	Y
H	acyl	NH_2	Br	OH
H	acyl	NH_2	Br	OMe
H	acyl	NH_2	Br	OEt
H	acyl	NH_2	Br	O-cyclopropyl
H	acyl	NH_2	Br	O-acetyl
H	acyl	NH_2	Br	SH
H	acyl	NH_2	Br	SMe
H	acyl	NH_2	Br	SEt
H	acyl	NH_2	Br	S-cyclopropyl
H	acyl	NH_2	Br	F
H	acyl	NH_2	Br	Cl
H	acyl	NH_2	Br	Br
H	acyl	NH_2	Br	I
H	amino acid	NH_2	Br	H
H	amino acid	NH_2	Br	NH_2
H	amino acid	NH_2	Br	NH-cyclopropyl
H	amino acid	NH_2	Br	NH-methyl
H	amino acid	NH_2	Br	NH-ethyl
H	amino acid	NH_2	Br	NH-acetyl
H	amino acid	NH_2	Br	OH
H	amino acid	NH_2	Br	OMe
H	amino acid	NH_2	Br	OEt
H	amino acid	NH_2	Br	O-cyclopropyl
H	amino acid	NH_2	Br	O-acetyl
H	amino acid	NH_2	Br	SH
H	amino acid	NH_2	Br	SMe
H	amino acid	NH_2	Br	SEt
H	amino acid	NH_2	Br	S-cyclopropyl
H	amino acid	NH_2	Br	F
H	amino acid	NH_2	Br	Cl
H	amino acid	NH_2	Br	Br
H	amino acid	NH_2	Br	I
amino acid	amino acid	NH_2	Br	H
amino acid	amino acid	NH_2	Br	NH_2
amino acid	amino acid	NH_2	Br	NH-cyclopropyl
amino acid	amino acid	NH_2	Br	NH-methyl
amino acid	amino acid	NH_2	Br	NH-ethyl
amino acid	amino acid	NH_2	Br	NH-acetyl
amino acid	amino acid	NH_2	Br	OH
amino acid	amino acid	NH_2	Br	OMe
amino acid	amino acid	NH_2	Br	OEt
amino acid	amino acid	NH_2	Br	O-cyclopropyl
amino acid	amino acid	NH_2	Br	O-acetyl
amino acid	amino acid	NH_2	Br	SH
amino acid	amino acid	NH_2	Br	SMe
amino acid	amino acid	NH_2	Br	SEt
amino acid	amino acid	NH_2	Br	S-cyclopropyl

R^1	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Br	F
amino acid	amino acid	NH_2	Br	Cl
amino acid	amino acid	NH_2	Br	Br
amino acid	amino acid	NH_2	Br	I
amino acid	H	NH_2	Br	H
amino acid	H	NH_2	Br	NH_2
amino acid	H	NH_2	Br	NH-cyclopropyl
amino acid	H	NH_2	Br	NH-methyl
amino acid	H	NH_2	Br	NH-ethyl
amino acid	H	NH_2	Br	NH-acetyl
amino acid	H	NH_2	Br	OH
amino acid	H	NH_2	Br	OMe
amino acid	H	NH_2	Br	OEt
amino acid	H	NH_2	Br	O-cyclopropyl
amino acid	H	NH_2	Br	O-acetyl
amino acid	H	NH_2	Br	SH
amino acid	H	NH_2	Br	SMe
amino acid	H	NH_2	Br	SEt
amino acid	H	NH_2	Br	S-cyclopropyl
amino acid	H	NH_2	Br	F
amino acid	H	NH_2	Br	Cl
amino acid	H	NH_2	Br	Br
amino acid	H	NH_2	Br	I
amino acid	acyl	NH_2	Br	H
amino acid	acyl	NH_2	Br	NH_2
amino acid	acyl	NH_2	Br	NH-cyclopropyl
amino acid	acyl	NH_2	Br	NH-methyl
amino acid	acyl	NH_2	Br	NH-ethyl
amino acid	acyl	NH_2	Br	NH-acetyl
amino acid	acyl	NH_2	Br	OH
amino acid	acyl	NH_2	Br	OMe
amino acid	acyl	NH_2	Br	OEt
amino acid	acyl	NH_2	Br	O-cyclopropyl
amino acid	acyl	NH_2	Br	O-acetyl
amino acid	acyl	NH_2	Br	SH
amino acid	acyl	NH_2	Br	SMe
amino acid	acyl	NH_2	Br	SEt
amino acid	acyl	NH_2	Br	S-cyclopropyl
amino acid	acyl	NH_2	Br	F
amino acid	acyl	NH_2	Br	Cl
amino acid	acyl	NH_2	Br	Br
amino acid	acyl	NH_2	Br	I
acyl	H	NH_2	Cl	H
acyl	H	NH_2	Cl	NH_2
acyl	H	NH_2	Cl	NH-cyclopropyl
acyl	H	NH_2	Cl	NH-methyl
acyl	H	NH_2	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
acyl	H	NH_2	Cl	NH-acetyl
acyl	H	NH_2	Cl	OH
acyl	H	NH_2	Cl	OMe
acyl	H	NH_2	Cl	OEt
acyl	H	NH_2	Cl	O-cyclopropyl
acyl	H	NH_2	Cl	O-acetyl
acyl	H	NH_2	Cl	SH
acyl	H	NH_2	Cl	SMe
acyl	H	NH_2	Cl	SEt
acyl	H	NH_2	Cl	S-cyclopropyl
acyl	H	NH_2	Cl	F
acyl	H	NH_2	Cl	Cl
acyl	H	NH_2	Cl	Br
acyl	H	NH_2	Cl	I
acyl	acyl	NH_2	Cl	H
acyl	acyl	NH_2	Cl	NH_2
acyl	acyl	NH_2	Cl	NH-cyclopropyl
acyl	acyl	NH_2	Cl	NH-methyl
acyl	acyl	NH_2	Cl	NH-ethyl
acyl	acyl	NH_2	Cl	NH-acetyl
acyl	acyl	NH_2	Cl	OH
acyl	acyl	NH_2	Cl	OMe
acyl	acyl	NH_2	Cl	OEt
acyl	acyl	NH_2	Cl	O-cyclopropyl
acyl	acyl	NH_2	Cl	O-acetyl
acyl	acyl	NH_2	Cl	SH
acyl	acyl	NH_2	Cl	SMe
acyl	acyl	NH_2	Cl	SEt
acyl	acyl	NH_2	Cl	S-cyclopropyl
acyl	acyl	NH_2	Cl	F
acyl	acyl	NH_2	Cl	Cl
acyl	acyl	NH_2	Cl	Br
acyl	acyl	NH_2	Cl	I
acyl	amino acid	NH_2	Cl	H
acyl	amino acid	NH_2	Cl	NH_2
acyl	amino acid	NH_2	Cl	NH-cyclopropyl
acyl	amino acid	NH_2	Cl	NH-methyl
acyl	amino acid	NH_2	Cl	NH-ethyl
acyl	amino acid	NH_2	Cl	NH-acetyl
acyl	amino acid	NH_2	Cl	OH
acyl	amino acid	NH_2	Cl	OMe
acyl	amino acid	NH_2	Cl	OEt
acyl	amino acid	NH_2	Cl	O-cyclopropyl
acyl	amino acid	NH_2	Cl	O-acetyl
acyl	amino acid	NH_2	Cl	SH
acyl	amino acid	NH_2	Cl	SMe
acyl	amino acid	NH_2	Cl	SEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	Cl	S-cyclopropyl
acyl	amino acid	NH_2	Cl	F
acyl	amino acid	NH_2	Cl	Cl
acyl	amino acid	NH_2	Cl	Br
acyl	amino acid	NH_2	Cl	I
H	acyl	NH_2	Cl	H
H	acyl	NH_2	Cl	NH_2
H	acyl	NH_2	Cl	NH-cyclopropyl
H	acyl	NH_2	Cl	NH-methyl
H	acyl	NH_2	Cl	NH-ethyl
H	acyl	NH_2	Cl	NH-acetyl
H	acyl	NH_2	Cl	OH
H	acyl	NH_2	Cl	OMe
H	acyl	NH_2	Cl	OEt
H	acyl	NH_2	Cl	O-cyclopropyl
H	acyl	NH_2	Cl	O-acetyl
H	acyl	NH_2	Cl	SH
H	acyl	NH_2	Cl	SMe
H	acyl	NH_2	Cl	SEt
H	acyl	NH_2	Cl	S-cyclopropyl
H	acyl	NH_2	Cl	F
H	acyl	NH_2	Cl	Cl
H	acyl	NH_2	Cl	Br
H	acyl	NH_2	Cl	I
H	amino acid	NH_2	Cl	H
H	amino acid	NH_2	Cl	NH_2
H	amino acid	NH_2	Cl	NH-cyclopropyl
H	amino acid	NH_2	Cl	NH-methyl
H	amino acid	NH_2	Cl	NH-ethyl
H	amino acid	NH_2	Cl	NH-acetyl
H	amino acid	NH_2	Cl	OH
H	amino acid	NH_2	Cl	OMe
H	amino acid	NH_2	Cl	OEt
H	amino acid	NH_2	Cl	O-cyclopropyl
H	amino acid	NH_2	Cl	O-acetyl
H	amino acid	NH_2	Cl	SH
H	amino acid	NH_2	Cl	SMe
H	amino acid	NH_2	Cl	SEt
H	amino acid	NH_2	Cl	S-cyclopropyl
H	amino acid	NH_2	Cl	F
H	amino acid	NH_2	Cl	Cl
H	amino acid	NH_2	Cl	Br
H	amino acid	NH_2	Cl	I
amino acid	amino acid	NH_2	Cl	H
amino acid	amino acid	NH_2	Cl	NH_2
amino acid	amino acid	NH_2	Cl	NH-cyclopropyl
amino acid	amino acid	NH_2	Cl	NH-methyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	NH_2	Cl	NH-ethyl
amino acid	amino acid	NH_2	Cl	NH-acetyl
amino acid	amino acid	NH_2	Cl	OH
amino acid	amino acid	NH_2	Cl	OMe
amino acid	amino acid	NH_2	Cl	OEt
amino acid	amino acid	NH_2	Cl	O-cyclopropyl
amino acid	amino acid	NH_2	Cl	O-acetyl
amino acid	amino acid	NH_2	Cl	SH
amino acid	amino acid	NH_2	Cl	SMe
amino acid	amino acid	NH_2	Cl	SEt
amino acid	amino acid	NH_2	Cl	S-cyclopropyl
amino acid	amino acid	NH_2	Cl	F
amino acid	amino acid	NH_2	Cl	Cl
amino acid	amino acid	NH_2	Cl	Br
amino acid	amino acid	NH_2	Cl	I
amino acid	H	NH_2	Cl	H
amino acid	H	NH_2	Cl	NH_2
amino acid	H	NH_2	Cl	NH-cyclopropyl
amino acid	H	NH_2	Cl	NH-methyl
amino acid	H	NH_2	Cl	NH-ethyl
amino acid	H	NH_2	Cl	NH-acetyl
amino acid	H	NH_2	Cl	OH
amino acid	H	NH_2	Cl	OMe
amino acid	H	NH_2	Cl	OEt
amino acid	H	NH_2	Cl	O-cyclopropyl
amino acid	H	NH_2	Cl	O-acetyl
amino acid	H	NH_2	Cl	SH
amino acid	H	NH_2	Cl	SMe
amino acid	H	NH_2	Cl	SEt
amino acid	H	NH_2	Cl	S-cyclopropyl
amino acid	H	NH_2	Cl	F
amino acid	H	NH_2	Cl	Cl
amino acid	H	NH_2	Cl	Br
amino acid	H	NH_2	Cl	I
amino acid	acyl	NH_2	Cl	H
amino acid	acyl	NH_2	Cl	NH_2
amino acid	acyl	NH_2	Cl	NH-cyclopropyl
amino acid	acyl	NH_2	Cl	NH-methyl
amino acid	acyl	NH_2	Cl	NH-ethyl
amino acid	acyl	NH_2	Cl	NH-acetyl
amino acid	acyl	NH_2	Cl	OH
amino acid	acyl	NH_2	Cl	OMe
amino acid	acyl	NH_2	Cl	OEt
amino acid	acyl	NH_2	Cl	O-cyclopropyl
amino acid	acyl	NH_2	Cl	O-acetyl
amino acid	acyl	NH_2	Cl	SH
amino acid	acyl	NH_2	Cl	SMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	Cl	SEt
amino acid	acyl	NH_2	Cl	S-cyclopropyl
amino acid	acyl	NH_2	Cl	F
amino acid	acyl	NH_2	Cl	Cl
amino acid	acyl	NH_2	Cl	Br
amino acid	acyl	NH_2	Cl	I
acyl	H	NH_2	SH	H
acyl	H	NH_2	SH	NH_2
acyl	H	NH_2	SH	NH-cyclopropyl
acyl	H	NH_2	SH	NH-methyl
acyl	H	NH_2	SH	NH-ethyl
acyl	H	NH_2	SH	NH-acetyl
acyl	H	NH_2	SH	OH
acyl	H	NH_2	SH	OMe
acyl	H	NH_2	SH	OEt
acyl	H	NH_2	SH	O-cyclopropyl
acyl	H	NH_2	SH	O-acetyl
acyl	H	NH_2	SH	SH
acyl	H	NH_2	SH	SMe
acyl	H	NH_2	SH	SEt
acyl	H	NH_2	SH	S-cyclopropyl
acyl	H	NH_2	SH	F
acyl	H	NH_2	SH	Cl
acyl	H	NH_2	SH	Br
acyl	H	NH_2	SH	I
acyl	acyl	NH_2	SH	H
acyl	acyl	NH_2	SH	NH_2
acyl	acyl	NH_2	SH	NH-cyclopropyl
acyl	acyl	NH_2	SH	NH-methyl
acyl	acyl	NH_2	SH	NH-ethyl
acyl	acyl	NH_2	SH	NH-acetyl
acyl	acyl	NH_2	SH	OH
acyl	acyl	NH_2	SH	OMe
acyl	acyl	NH_2	SH	OEt
acyl	acyl	NH_2	SH	O-cyclopropyl
acyl	acyl	NH_2	SH	O-acetyl
acyl	acyl	NH_2	SH	SH
acyl	acyl	NH_2	SH	SMe
acyl	acyl	NH_2	SH	SEt
acyl	acyl	NH_2	SH	S-cyclopropyl
acyl	acyl	NH_2	SH	F
acyl	acyl	NH_2	SH	Cl
acyl	acyl	NH_2	SH	Br
acyl	acyl	NH_2	SH	I
acyl	amino acid	NH_2	SH	H
acyl	amino acid	NH_2	SH	NH_2
acyl	amino acid	NH_2	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	NH_2	SH	NH-methyl
acyl	amino acid	NH_2	SH	NH-ethyl
acyl	amino acid	NH_2	SH	NH-acetyl
acyl	amino acid	NH_2	SH	OH
acyl	amino acid	NH_2	SH	OMe
acyl	amino acid	NH_2	SH	OEt
acyl	amino acid	NH_2	SH	O-cyclopropyl
acyl	amino acid	NH_2	SH	O-acetyl
acyl	amino acid	NH_2	SH	SH
acyl	amino acid	NH_2	SH	SMe
acyl	amino acid	NH_2	SH	SEt
acyl	amino acid	NH_2	SH	S-cyclopropyl
acyl	amino acid	NH_2	SH	F
acyl	amino acid	NH_2	SH	Cl
acyl	amino acid	NH_2	SH	Br
acyl	amino acid	NH_2	SH	I
H	acyl	NH_2	SH	H
H	acyl	NH_2	SH	NH_2
H	acyl	NH_2	SH	NH-cyclopropyl
H	acyl	NH_2	SH	NH-methyl
H	acyl	NH_2	SH	NH-ethyl
H	acyl	NH_2	SH	NH-acetyl
H	acyl	NH_2	SH	OH
H	acyl	NH_2	SH	OMe
H	acyl	NH_2	SH	OEt
H	acyl	NH_2	SH	O-cyclopropyl
H	acyl	NH_2	SH	O-acetyl
H	acyl	NH_2	SH	SH
H	acyl	NH_2	SH	SMe
H	acyl	NH_2	SH	SEt
H	acyl	NH_2	SH	S-cyclopropyl
H	acyl	NH_2	SH	F
H	acyl	NH_2	SH	Cl
H	acyl	NH_2	SH	Br
H	acyl	NH_2	SH	I
H	amino acid	NH_2	SH	H
H	amino acid	NH_2	SH	NH_2
H	amino acid	NH_2	SH	NH-cyclopropyl
H	amino acid	NH_2	SH	NH-methyl
H	amino acid	NH_2	SH	NH-ethyl
H	amino acid	NH_2	SH	NH-acetyl
H	amino acid	NH_2	SH	OH
H	amino acid	NH_2	SH	OMe
H	amino acid	NH_2	SH	OEt
H	amino acid	NH_2	SH	O-cyclopropyl
H	amino acid	NH_2	SH	O-acetyl
H	amino acid	NH_2	SH	SH

R^2	R^3	X^1	X^2	Y
H	amino acid	NH_2	SH	SMe
H	amino acid	NH_2	SH	SEt
H	amino acid	NH_2	SH	S-cyclopropyl
H	amino acid	NH_2	SH	F
H	amino acid	NH_2	SH	Cl
H	amino acid	NH_2	SH	Br
H	amino acid	NH_2	SH	I
amino acid	amino acid	NH_2	SH	H
amino acid	amino acid	NH_2	SH	NH_2
amino acid	amino acid	NH_2	SH	NH-cyclopropyl
amino acid	amino acid	NH_2	SH	NH-methyl
amino acid	amino acid	NH_2	SH	NH-ethyl
amino acid	amino acid	NH_2	SH	NH-acetyl
amino acid	amino acid	NH_2	SH	OH
amino acid	amino acid	NH_2	SH	OMe
amino acid	amino acid	NH_2	SH	OEt
amino acid	amino acid	NH_2	SH	O-cyclopropyl
amino acid	amino acid	NH_2	SH	O-acetyl
amino acid	amino acid	NH_2	SH	SH
amino acid	amino acid	NH_2	SH	SMe
amino acid	amino acid	NH_2	SH	SEt
amino acid	amino acid	NH_2	SH	S-cyclopropyl
amino acid	amino acid	NH_2	SH	F
amino acid	amino acid	NH_2	SH	Cl
amino acid	amino acid	NH_2	SH	Br
amino acid	amino acid	NH_2	SH	I
amino acid	H	NH_2	SH	H
amino acid	H	NH_2	SH	NH_2
amino acid	H	NH_2	SH	NH-cyclopropyl
amino acid	H	NH_2	SH	NH-methyl
amino acid	H	NH_2	SH	NH-ethyl
amino acid	H	NH_2	SH	NH-acetyl
amino acid	H	NH_2	SH	OH
amino acid	H	NH_2	SH	OMe
amino acid	H	NH_2	SH	OEt
amino acid	H	NH_2	SH	O-cyclopropyl
amino acid	H	NH_2	SH	O-acetyl
amino acid	H	NH_2	SH	SH
amino acid	H	NH_2	SH	SMe
amino acid	H	NH_2	SH	SEt
amino acid	H	NH_2	SH	S-cyclopropyl
amino acid	H	NH_2	SH	F
amino acid	H	NH_2	SH	Cl
amino acid	H	NH_2	SH	Br
amino acid	H	NH_2	SH	I
amino acid	acyl	NH_2	SH	H
amino acid	acyl	NH_2	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	acyl	NH_2	SH	NH-cyclopropyl
amino acid	acyl	NH_2	SH	NH-methyl
amino acid	acyl	NH_2	SH	NH-ethyl
amino acid	acyl	NH_2	SH	NH-acetyl
amino acid	acyl	NH_2	SH	OH
amino acid	acyl	NH_2	SH	OMe
amino acid	acyl	NH_2	SH	OEt
amino acid	acyl	NH_2	SH	O-cyclopropyl
amino acid	acyl	NH_2	SH	O-acetyl
amino acid	acyl	NH_2	SH	SH
amino acid	acyl	NH_2	SH	SMe
amino acid	acyl	NH_2	SH	SEt
amino acid	acyl	NH_2	SH	S-cyclopropyl
amino acid	acyl	NH_2	SH	F
amino acid	acyl	NH_2	SH	Cl
amino acid	acyl	NH_2	SH	Br
amino acid	acyl	NH_2	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H

R^2	R^3	X^1	X^2	Y
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	F	Br	H
acyl	H	F	Br	NH_2
acyl	H	F	Br	NH-cyclopropyl
acyl	H	F	Br	NH-methyl
acyl	H	F	Br	NH-ethyl
acyl	H	F	Br	NH-acetyl
acyl	H	F	Br	OH
acyl	H	F	Br	OMe
acyl	H	F	Br	OEt
acyl	H	F	Br	O-cyclopropyl
acyl	H	F	Br	O-acetyl
acyl	H	F	Br	SH
acyl	H	F	Br	SMe
acyl	H	F	Br	SEt
acyl	H	F	Br	S-cyclopropyl
acyl	H	F	Br	F
acyl	H	F	Br	Cl
acyl	H	F	Br	Br
acyl	H	F	Br	I

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	Br	H
acyl	acyl	F	Br	NH_2
acyl	acyl	F	Br	NH-cyclopropyl
acyl	acyl	F	Br	NH-methyl
acyl	acyl	F	Br	NH-ethyl
acyl	acyl	F	Br	NH-acetyl
acyl	acyl	F	Br	OH
acyl	acyl	F	Br	OMe
acyl	acyl	F	Br	OEt
acyl	acyl	F	Br	O-cyclopropyl
acyl	acyl	F	Br	O-acetyl
acyl	acyl	F	Br	SH
acyl	acyl	F	Br	SMe
acyl	acyl	F	Br	SEt
acyl	acyl	F	Br	S-cyclopropyl
acyl	acyl	F	Br	F
acyl	acyl	F	Br	Cl
acyl	acyl	F	Br	Br
acyl	acyl	F	Br	I
acyl	amino acid	F	Br	H
acyl	amino acid	F	Br	NH_2
acyl	amino acid	F	Br	NH-cyclopropyl
acyl	amino acid	F	Br	NH-methyl
acyl	amino acid	F	Br	NH-ethyl
acyl	amino acid	F	Br	NH-acetyl
acyl	amino acid	F	Br	OH
acyl	amino acid	F	Br	OMe
acyl	amino acid	F	Br	OEt
acyl	amino acid	F	Br	O-cyclopropyl
acyl	amino acid	F	Br	O-acetyl
acyl	amino acid	F	Br	SH
acyl	amino acid	F	Br	SMe
acyl	amino acid	F	Br	SEt
acyl	amino acid	F	Br	S-cyclopropyl
acyl	amino acid	F	Br	F
acyl	amino acid	F	Br	Cl
acyl	amino acid	F	Br	Br
acyl	amino acid	F	Br	I
H	acyl	F	Br	H
H	acyl	F	Br	NH_2
H	acyl	F	Br	NH-cyclopropyl
H	acyl	F	Br	NH-methyl
H	acyl	F	Br	NH-ethyl
H	acyl	F	Br	NH-acetyl
H	acyl	F	Br	OH
H	acyl	F	Br	OMe
H	acyl	F	Br	OEt

R^2	R^3	X^1	X^2	Y
H	acyl	F	Br	O-cyclopropyl
H	acyl	F	Br	O-acetyl
H	acyl	F	Br	SH
H	acyl	F	Br	SMe
H	acyl	F	Br	SEt
H	acyl	F	Br	S-cyclopropyl
H	acyl	F	Br	F
H	acyl	F	Br	Cl
H	acyl	F	Br	Br
H	acyl	F	Br	I
H	amino acid	F	Br	H
H	amino acid	F	Br	NH_2
H	amino acid	F	Br	NH-cyclopropyl
H	amino acid	F	Br	NH-methyl
H	amino acid	F	Br	NH-ethyl
H	amino acid	F	Br	NH-acetyl
H	amino acid	F	Br	OH
H	amino acid	F	Br	OMe
H	amino acid	F	Br	OEt
H	amino acid	F	Br	O-cyclopropyl
H	amino acid	F	Br	O-acetyl
H	amino acid	F	Br	SH
H	amino acid	F	Br	SMe
H	amino acid	F	Br	SEt
H	amino acid	F	Br	S-cyclopropyl
H	amino acid	F	Br	F
H	amino acid	F	Br	Cl
H	amino acid	F	Br	Br
H	amino acid	F	Br	I
amino acid	amino acid	F	Br	H
amino acid	amino acid	F	Br	NH_2
amino acid	amino acid	F	Br	NH-cyclopropyl
amino acid	amino acid	F	Br	NH-methyl
amino acid	amino acid	F	Br	NH-ethyl
amino acid	amino acid	F	Br	NH-acetyl
amino acid	amino acid	F	Br	OH
amino acid	amino acid	F	Br	OMe
amino acid	amino acid	F	Br	OEt
amino acid	amino acid	F	Br	O-cyclopropyl
amino acid	amino acid	F	Br	O-acetyl
amino acid	amino acid	F	Br	SH
amino acid	amino acid	F	Br	SMe
amino acid	amino acid	F	Br	SEt
amino acid	amino acid	F	Br	S-cyclopropyl
amino acid	amino acid	F	Br	F
amino acid	amino acid	F	Br	Cl
amino acid	amino acid	F	Br	Br

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	Br	I
amino acid	H	F	Br	H
amino acid	H	F	Br	NH_2
amino acid	H	F	Br	NH-cyclopropyl
amino acid	H	F	Br	NH-methyl
amino acid	H	F	Br	NH-ethyl
amino acid	H	F	Br	NH-acetyl
amino acid	H	F	Br	OH
amino acid	H	F	Br	OMe
amino acid	H	F	Br	OEt
amino acid	H	F	Br	O-cyclopropyl
amino acid	H	F	Br	O-acetyl
amino acid	H	F	Br	SH
amino acid	H	F	Br	SMe
amino acid	H	F	Br	SEt
amino acid	H	F	Br	S-cyclopropyl
amino acid	H	F	Br	F
amino acid	H	F	Br	Cl
amino acid	H	F	Br	Br
amino acid	H	F	Br	I
amino acid	acyl	F	Br	H
amino acid	acyl	F	Br	NH_2
amino acid	acyl	F	Br	NH-cyclopropyl
amino acid	acyl	F	Br	NH-methyl
amino acid	acyl	F	Br	NH-ethyl
amino acid	acyl	F	Br	NH-acetyl
amino acid	acyl	F	Br	OH
amino acid	acyl	F	Br	OMe
amino acid	acyl	F	Br	OEt
amino acid	acyl	F	Br	O-cyclopropyl
amino acid	acyl	F	Br	O-acetyl
amino acid	acyl	F	Br	SH
amino acid	acyl	F	Br	SMe
amino acid	acyl	F	Br	SEt
amino acid	acyl	F	Br	S-cyclopropyl
amino acid	acyl	F	Br	F
amino acid	acyl	F	Br	Cl
amino acid	acyl	F	Br	Br
amino acid	acyl	F	Br	I
acyl	H	Br	F	H
acyl	H	Br	F	NH_2
acyl	H	Br	F	NH-cyclopropyl
acyl	H	Br	F	NH-methyl
acyl	H	Br	F	NH-ethyl
acyl	H	Br	F	NH-acetyl
acyl	H	Br	F	OH
acyl	H	Br	F	OMe

R^2	R^3	X^1	X^2	Y
acyl	H	Br	F	OEt
acyl	H	Br	F	O-cyclopropyl
acyl	H	Br	F	O-acetyl
acyl	H	Br	F	SH
acyl	H	Br	F	SMe
acyl	H	Br	F	SEt
acyl	H	Br	F	S-cyclopropyl
acyl	H	Br	F	F
acyl	H	Br	F	Cl
acyl	H	Br	F	Br
acyl	H	Br	F	I
acyl	acyl	Br	F	H
acyl	acyl	Br	F	NH_2
acyl	acyl	Br	F	NH-cyclopropyl
acyl	acyl	Br	F	NH-methyl
acyl	acyl	Br	F	NH-ethyl
acyl	acyl	Br	F	NH-acetyl
acyl	acyl	Br	F	OH
acyl	acyl	Br	F	OMe
acyl	acyl	Br	F	OEt
acyl	acyl	Br	F	O-cyclopropyl
acyl	acyl	Br	F	O-acetyl
acyl	acyl	Br	F	SH
acyl	acyl	Br	F	SMe
acyl	acyl	Br	F	SEt
acyl	acyl	Br	F	S-cyclopropyl
acyl	acyl	Br	F	F
acyl	acyl	Br	F	Cl
acyl	acyl	Br	F	Br
acyl	acyl	Br	F	I
acyl	amino acid	Br	F	H
acyl	amino acid	Br	F	NH_2
acyl	amino acid	Br	F	NH-cyclopropyl
acyl	amino acid	Br	F	NH-methyl
acyl	amino acid	Br	F	NH-ethyl
acyl	amino acid	Br	F	NH-acetyl
acyl	amino acid	Br	F	OH
acyl	amino acid	Br	F	OMe
acyl	amino acid	Br	F	OEt
acyl	amino acid	Br	F	O-cyclopropyl
acyl	amino acid	Br	F	O-acetyl
acyl	amino acid	Br	F	SH
acyl	amino acid	Br	F	SMe
acyl	amino acid	Br	F	SEt
acyl	amino acid	Br	F	S-cyclopropyl
acyl	amino acid	Br	F	F
acyl	amino acid	Br	F	Cl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	F	Br
acyl	amino acid	Br	F	I
H	acyl	Br	F	H
H	acyl	Br	F	NH_2
H	acyl	Br	F	NH-cyclopropyl
H	acyl	Br	F	NH-methyl
H	acyl	Br	F	NH-ethyl
H	acyl	Br	F	NH-acetyl
H	acyl	Br	F	OH
H	acyl	Br	F	OMe
H	acyl	Br	F	OEt
H	acyl	Br	F	O-cyclopropyl
H	acyl	Br	F	O-acetyl
H	acyl	Br	F	SH
H	acyl	Br	F	SMe
H	acyl	Br	F	SEt
H	acyl	Br	F	S-cyclopropyl
H	acyl	Br	F	F
H	acyl	Br	F	Cl
H	acyl	Br	F	Br
H	acyl	Br	F	I
H	amino acid	Br	F	H
H	amino acid	Br	F	NH_2
H	amino acid	Br	F	NH-cyclopropyl
H	amino acid	Br	F	NH-methyl
H	amino acid	Br	F	NH-ethyl
H	amino acid	Br	F	NH-acetyl
H	amino acid	Br	F	OH
H	amino acid	Br	F	OMe
H	amino acid	Br	F	OEt
H	amino acid	Br	F	O-cyclopropyl
H	amino acid	Br	F	O-acetyl
H	amino acid	Br	F	SH
H	amino acid	Br	F	SMe
H	amino acid	Br	F	SEt
H	amino acid	Br	F	S-cyclopropyl
H	amino acid	Br	F	F
H	amino acid	Br	F	Cl
H	amino acid	Br	F	Br
H	amino acid	Br	F	I
amino acid	amino acid	Br	F	H
amino acid	amino acid	Br	F	NH_2
amino acid	amino acid	Br	F	NH-cyclopropyl
amino acid	amino acid	Br	F	NH-methyl
amino acid	amino acid	Br	F	NH-ethyl
amino acid	amino acid	Br	F	NH-acetyl
amino acid	amino acid	Br	F	OH

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Br	F	OMe
amino acid	amino acid	Br	F	OEt
amino acid	amino acid	Br	F	O-cyclopropyl
amino acid	amino acid	Br	F	O-acetyl
amino acid	amino acid	Br	F	SH
amino acid	amino acid	Br	F	SMe
amino acid	amino acid	Br	F	SEt
amino acid	amino acid	Br	F	S-cyclopropyl
amino acid	amino acid	Br	F	F
amino acid	amino acid	Br	F	Cl
amino acid	amino acid	Br	F	Br
amino acid	amino acid	Br	F	I
amino acid	H	Br	F	H
amino acid	H	Br	F	NH_2
amino acid	H	Br	F	NH-cyclopropyl
amino acid	H	Br	F	NH-methyl
amino acid	H	Br	F	NH-ethyl
amino acid	H	Br	F	NH-acetyl
amino acid	H	Br	F	OH
amino acid	H	Br	F	OMe
amino acid	H	Br	F	OEt
amino acid	H	Br	F	O-cyclopropyl
amino acid	H	Br	F	O-acetyl
amino acid	H	Br	F	SH
amino acid	H	Br	F	SMe
amino acid	H	Br	F	SEt
amino acid	H	Br	F	S-cyclopropyl
amino acid	H	Br	F	F
amino acid	H	Br	F	Cl
amino acid	H	Br	F	Br
amino acid	H	Br	F	I
amino acid	acyl	Br	F	H
amino acid	acyl	Br	F	NH_2
amino acid	acyl	Br	F	NH-cyclopropyl
amino acid	acyl	Br	F	NH-methyl
amino acid	acyl	Br	F	NH-ethyl
amino acid	acyl	Br	F	NH-acetyl
amino acid	acyl	Br	F	OH
amino acid	acyl	Br	F	OMe
amino acid	acyl	Br	F	OEt
amino acid	acyl	Br	F	O-cyclopropyl
amino acid	acyl	Br	F	O-acetyl
amino acid	acyl	Br	F	SH
amino acid	acyl	Br	F	SMe
amino acid	acyl	Br	F	SEt
amino acid	acyl	Br	F	S-cyclopropyl
amino acid	acyl	Br	F	F

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	F	Cl
amino acid	acyl	Br	F	Br
amino acid	acyl	Br	F	I
acyl	H	F	Cl	H
acyl	H	F	Cl	NH_2
acyl	H	F	Cl	NH-cyclopropyl
acyl	H	F	Cl	NH-methyl
acyl	H	F	Cl	NH-ethyl
acyl	H	F	Cl	NH-acetyl
acyl	H	F	Cl	OH
acyl	H	F	Cl	OMe
acyl	H	F	Cl	OEt
acyl	H	F	Cl	O-cyclopropyl
acyl	H	F	Cl	O-acetyl
acyl	H	F	Cl	SH
acyl	H	F	Cl	SMe
acyl	H	F	Cl	SEt
acyl	H	F	Cl	S-cyclopropyl
acyl	H	F	Cl	F
acyl	H	F	Cl	Cl
acyl	H	F	Cl	Br
acyl	H	F	Cl	I
acyl	acyl	F	Cl	H
acyl	acyl	F	Cl	NH_2
acyl	acyl	F	Cl	NH-cyclopropyl
acyl	acyl	F	Cl	NH-methyl
acyl	acyl	F	Cl	NH-ethyl
acyl	acyl	F	Cl	NH-acetyl
acyl	acyl	F	Cl	OH
acyl	acyl	F	Cl	OMe
acyl	acyl	F	Cl	OEt
acyl	acyl	F	Cl	O-cyclopropyl
acyl	acyl	F	Cl	O-acetyl
acyl	acyl	F	Cl	SH
acyl	acyl	F	Cl	SMe
acyl	acyl	F	Cl	SEt
acyl	acyl	F	Cl	S-cyclopropyl
acyl	acyl	F	Cl	F
acyl	acyl	F	Cl	Cl
acyl	acyl	F	Cl	Br
acyl	acyl	F	Cl	I
acyl	amino acid	F	Cl	H
acyl	amino acid	F	Cl	NH_2
acyl	amino acid	F	Cl	NH-cyclopropyl
acyl	amino acid	F	Cl	NH-methyl
acyl	amino acid	F	Cl	NH-ethyl
acyl	amino acid	F	Cl	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	F	Cl	OH
acyl	amino acid	F	Cl	OMe
acyl	amino acid	F	Cl	OEt
acyl	amino acid	F	Cl	O-cyclopropyl
acyl	amino acid	F	Cl	O-acetyl
acyl	amino acid	F	Cl	SH
acyl	amino acid	F	Cl	SMe
acyl	amino acid	F	Cl	SEt
acyl	amino acid	F	Cl	S-cyclopropyl
acyl	amino acid	F	Cl	F
acyl	amino acid	F	Cl	Cl
acyl	amino acid	F	Cl	Br
acyl	amino acid	F	Cl	I
H	acyl	F	Cl	H
H	acyl	F	Cl	NH_2
H	acyl	F	Cl	NH-cyclopropyl
H	acyl	F	Cl	NH-methyl
H	acyl	F	Cl	NH-ethyl
H	acyl	F	Cl	NH-acetyl
H	acyl	F	Cl	OH
H	acyl	F	Cl	OMe
H	acyl	F	Cl	OEt
H	acyl	F	Cl	O-cyclopropyl
H	acyl	F	Cl	O-acetyl
H	acyl	F	Cl	SH
H	acyl	F	Cl	SMe
H	acyl	F	Cl	SEt
H	acyl	F	Cl	S-cyclopropyl
H	acyl	F	Cl	F
H	acyl	F	Cl	Cl
H	acyl	F	Cl	Br
H	acyl	F	Cl	I
H	amino acid	F	Cl	H
H	amino acid	F	Cl	NH_2
H	amino acid	F	Cl	NH-cyclopropyl
H	amino acid	F	Cl	NH-methyl
H	amino acid	F	Cl	NH-ethyl
H	amino acid	F	Cl	NH-acetyl
H	amino acid	F	Cl	OH
H	amino acid	F	Cl	OMe
H	amino acid	F	Cl	OEt
H	amino acid	F	Cl	O-cyclopropyl
H	amino acid	F	Cl	O-acetyl
H	amino acid	F	Cl	SH
H	amino acid	F	Cl	SMe
H	amino acid	F	Cl	SEt
H	amino acid	F	Cl	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	F	Cl	F
H	amino acid	F	Cl	Cl
H	amino acid	F	Cl	Br
H	amino acid	F	Cl	I
amino acid	amino acid	F	Cl	H
amino acid	amino acid	F	Cl	NH_2
amino acid	amino acid	F	Cl	NH-cyclopropyl
amino acid	amino acid	F	Cl	NH-methyl
amino acid	amino acid	F	Cl	NH-ethyl
amino acid	amino acid	F	Cl	NH-acetyl
amino acid	amino acid	F	Cl	OH
amino acid	amino acid	F	Cl	OMe
amino acid	amino acid	F	Cl	OEt
amino acid	amino acid	F	Cl	O-cyclopropyl
amino acid	amino acid	F	Cl	O-acetyl
amino acid	amino acid	F	Cl	SH
amino acid	amino acid	F	Cl	SMe
amino acid	amino acid	F	Cl	SEt
amino acid	amino acid	F	Cl	S-cyclopropyl
amino acid	amino acid	F	Cl	F
amino acid	amino acid	F	Cl	Cl
amino acid	amino acid	F	Cl	Br
amino acid	amino acid	F	Cl	I
amino acid	H	F	Cl	H
amino acid	H	F	Cl	NH_2
amino acid	H	F	Cl	NH-cyclopropyl
amino acid	H	F	Cl	NH-methyl
amino acid	H	F	Cl	NH-ethyl
amino acid	H	F	Cl	NH-acetyl
amino acid	H	F	Cl	OH
amino acid	H	F	Cl	OMe
amino acid	H	F	Cl	OEt
amino acid	H	F	Cl	O-cyclopropyl
amino acid	H	F	Cl	O-acetyl
amino acid	H	F	Cl	SH
amino acid	H	F	Cl	SMe
amino acid	H	F	Cl	SEt
amino acid	H	F	Cl	S-cyclopropyl
amino acid	H	F	Cl	F
amino acid	H	F	Cl	Cl
amino acid	H	F	Cl	Br
amino acid	H	F	Cl	I
amino acid	acyl	F	Cl	H
amino acid	acyl	F	Cl	NH_2
amino acid	acyl	F	Cl	NH-cyclopropyl
amino acid	acyl	F	Cl	NH-methyl
amino acid	acyl	F	Cl	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	F	Cl	NH-acetyl
amino acid	acyl	F	Cl	OH
amino acid	acyl	F	Cl	OMe
amino acid	acyl	F	Cl	OEt
amino acid	acyl	F	Cl	O-cyclopropyl
amino acid	acyl	F	Cl	O-acetyl
amino acid	acyl	F	Cl	SH
amino acid	acyl	F	Cl	SMe
amino acid	acyl	F	Cl	SEt
amino acid	acyl	F	Cl	S-cyclopropyl
amino acid	acyl	F	Cl	F
amino acid	acyl	F	Cl	Cl
amino acid	acyl	F	Cl	Br
amino acid	acyl	F	Cl	I
acyl	H	Cl	F	H
acyl	H	Cl	F	NH_2
acyl	H	Cl	F	NH-cyclopropyl
acyl	H	Cl	F	NH-methyl
acyl	H	Cl	F	NH-ethyl
acyl	H	Cl	F	NH-acetyl
acyl	H	Cl	F	OH
acyl	H	Cl	F	OMe
acyl	H	Cl	F	OEt
acyl	H	Cl	F	O-cyclopropyl
acyl	H	Cl	F	O-acetyl
acyl	H	Cl	F	SH
acyl	H	Cl	F	SMe
acyl	H	Cl	F	SEt
acyl	H	Cl	F	S-cyclopropyl
acyl	H	Cl	F	F
acyl	H	Cl	F	Cl
acyl	H	Cl	F	Br
acyl	H	Cl	F	I
acyl	acyl	Cl	F	H
acyl	acyl	Cl	F	NH_2
acyl	acyl	Cl	F	NH-cyclopropyl
acyl	acyl	Cl	F	NH-methyl
acyl	acyl	Cl	F	NH-ethyl
acyl	acyl	Cl	F	NH-acetyl
acyl	acyl	Cl	F	OH
acyl	acyl	Cl	F	OMe
acyl	acyl	Cl	F	OEt
acyl	acyl	Cl	F	O-cyclopropyl
acyl	acyl	Cl	F	O-acetyl
acyl	acyl	Cl	F	SH
acyl	acyl	Cl	F	SMe
acyl	acyl	Cl	F	SEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	Cl	F	S-cyclopropyl
acyl	acyl	Cl	F	F
acyl	acyl	Cl	F	Cl
acyl	acyl	Cl	F	Br
acyl	acyl	Cl	F	I
acyl	amino acid	Cl	F	H
acyl	amino acid	Cl	F	NH_2
acyl	amino acid	Cl	F	NH-cyclopropyl
acyl	amino acid	Cl	F	NH-methyl
acyl	amino acid	Cl	F	NH-ethyl
acyl	amino acid	Cl	F	NH-acetyl
acyl	amino acid	Cl	F	OH
acyl	amino acid	Cl	F	OMe
acyl	amino acid	Cl	F	OEt
acyl	amino acid	Cl	F	O-cyclopropyl
acyl	amino acid	Cl	F	O-acetyl
acyl	amino acid	Cl	F	SH
acyl	amino acid	Cl	F	SMe
acyl	amino acid	Cl	F	SEt
acyl	amino acid	Cl	F	S-cyclopropyl
acyl	amino acid	Cl	F	F
acyl	amino acid	Cl	F	Cl
acyl	amino acid	Cl	F	Br
acyl	amino acid	Cl	F	I
H	acyl	Cl	F	H
H	acyl	Cl	F	NH_2
H	acyl	Cl	F	NH-cyclopropyl
H	acyl	Cl	F	NH-methyl
H	acyl	Cl	F	NH-ethyl
H	acyl	Cl	F	NH-acetyl
H	acyl	Cl	F	OH
H	acyl	Cl	F	OMe
H	acyl	Cl	F	OEt
H	acyl	Cl	F	O-cyclopropyl
H	acyl	Cl	F	O-acetyl
H	acyl	Cl	F	SH
H	acyl	Cl	F	SMe
H	acyl	Cl	F	SEt
H	acyl	Cl	F	S-cyclopropyl
H	acyl	Cl	F	F
H	acyl	Cl	F	Cl
H	acyl	Cl	F	Br
H	acyl	Cl	F	I
H	amino acid	Cl	F	H
H	amino acid	Cl	F	NH_2
H	amino acid	Cl	F	NH-cyclopropyl
H	amino acid	Cl	F	NH-methyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Cl	F	NH-ethyl
H	amino acid	Cl	F	NH-acetyl
H	amino acid	Cl	F	OH
H	amino acid	Cl	F	OMe
H	amino acid	Cl	F	OEt
H	amino acid	Cl	F	O-cyclopropyl
H	amino acid	Cl	F	O-acetyl
H	amino acid	Cl	F	SH
H	amino acid	Cl	F	SMe
H	amino acid	Cl	F	SEt
H	amino acid	Cl	F	S-cyclopropyl
H	amino acid	Cl	F	F
H	amino acid	Cl	F	Cl
H	amino acid	Cl	F	Br
H	amino acid	Cl	F	I
amino acid	amino acid	Cl	F	H
amino acid	amino acid	Cl	F	NH_2
amino acid	amino acid	Cl	F	NH-cyclopropyl
amino acid	amino acid	Cl	F	NH-methyl
amino acid	amino acid	Cl	F	NH-ethyl
amino acid	amino acid	Cl	F	NH-acetyl
amino acid	amino acid	Cl	F	OH
amino acid	amino acid	Cl	F	OMe
amino acid	amino acid	Cl	F	OEt
amino acid	amino acid	Cl	F	O-cyclopropyl
amino acid	amino acid	Cl	F	O-acetyl
amino acid	amino acid	Cl	F	SH
amino acid	amino acid	Cl	F	SMe
amino acid	amino acid	Cl	F	SEt
amino acid	amino acid	Cl	F	S-cyclopropyl
amino acid	amino acid	Cl	F	F
amino acid	amino acid	Cl	F	Cl
amino acid	amino acid	Cl	F	Br
amino acid	amino acid	Cl	F	I
amino acid	H	Cl	F	H
amino acid	H	Cl	F	NH_2
amino acid	H	Cl	F	NH-cyclopropyl
amino acid	H	Cl	F	NH-methyl
amino acid	H	Cl	F	NH-ethyl
amino acid	H	Cl	F	NH-acetyl
amino acid	H	Cl	F	OH
amino acid	H	Cl	F	OMe
amino acid	H	Cl	F	OEt
amino acid	H	Cl	F	O-cyclopropyl
amino acid	H	Cl	F	O-acetyl
amino acid	H	Cl	F	SH
amino acid	H	Cl	F	SMe

R^2	R^3	X^1	X^2	Y
amino acid	H	Cl	F	SEt
amino acid	H	Cl	F	S-cyclopropyl
amino acid	H	Cl	F	F
amino acid	H	Cl	F	Cl
amino acid	H	Cl	F	Br
amino acid	H	Cl	F	I
amino acid	acyl	Cl	F	H
amino acid	acyl	Cl	F	NH_2
amino acid	acyl	Cl	F	NH-cyclopropyl
amino acid	acyl	Cl	F	NH-methyl
amino acid	acyl	Cl	F	NH-ethyl
amino acid	acyl	Cl	F	NH-acetyl
amino acid	acyl	Cl	F	OH
amino acid	acyl	Cl	F	OMe
amino acid	acyl	Cl	F	OEt
amino acid	acyl	Cl	F	O-cyclopropyl
amino acid	acyl	Cl	F	O-acetyl
amino acid	acyl	Cl	F	SH
amino acid	acyl	Cl	F	SMe
amino acid	acyl	Cl	F	SEt
amino acid	acyl	Cl	F	S-cyclopropyl
amino acid	acyl	Cl	F	F
amino acid	acyl	Cl	F	Cl
amino acid	acyl	Cl	F	Br
amino acid	acyl	Cl	F	I
acyl	H	SH	H	H
acyl	H	SH	H	NH_2
acyl	H	SH	H	NH-cyclopropyl
acyl	H	SH	H	NH-methyl
acyl	H	SH	H	NH-ethyl
acyl	H	SH	H	NH-acetyl
acyl	H	SH	H	OH
acyl	H	SH	H	OMe
acyl	H	SH	H	OEt
acyl	H	SH	H	O-cyclopropyl
acyl	H	SH	H	O-acetyl
acyl	H	SH	H	SH
acyl	H	SH	H	SMe
acyl	H	SH	H	SEt
acyl	H	SH	H	S-cyclopropyl
acyl	H	SH	H	F
acyl	H	SH	H	Cl
acyl	H	SH	H	Br
acyl	H	SH	H	I
acyl	acyl	SH	H	H
acyl	acyl	SH	H	NH_2
acyl	acyl	SH	H	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	H	NH-methyl
acyl	acyl	SH	H	NH-ethyl
acyl	acyl	SH	H	NH-acetyl
acyl	acyl	SH	H	OH
acyl	acyl	SH	H	OMe
acyl	acyl	SH	H	OEt
acyl	acyl	SH	H	O-cyclopropyl
acyl	acyl	SH	H	O-acetyl
acyl	acyl	SH	H	SH
acyl	acyl	SH	H	SMe
acyl	acyl	SH	H	SEt
acyl	acyl	SH	H	S-cyclopropyl
acyl	acyl	SH	H	F
acyl	acyl	SH	H	Cl
acyl	acyl	SH	H	Br
acyl	acyl	SH	H	I
acyl	amino acid	SH	H	H
acyl	amino acid	SH	H	NH_2
acyl	amino acid	SH	H	NH-cyclopropyl
acyl	amino acid	SH	H	NH-methyl
acyl	amino acid	SH	H	NH-ethyl
acyl	amino acid	SH	H	NH-acetyl
acyl	amino acid	SH	H	OH
acyl	amino acid	SH	H	OMe
acyl	amino acid	SH	H	OEt
acyl	amino acid	SH	H	O-cyclopropyl
acyl	amino acid	SH	H	O-acetyl
acyl	amino acid	SH	H	SH
acyl	amino acid	SH	H	SMe
acyl	amino acid	SH	H	SEt
acyl	amino acid	SH	H	S-cyclopropyl
acyl	amino acid	SH	H	F
acyl	amino acid	SH	H	Cl
acyl	amino acid	SH	H	Br
acyl	amino acid	SH	H	I
H	acyl	SH	H	H
H	acyl	SH	H	NH_2
H	acyl	SH	H	NH-cyclopropyl
H	acyl	SH	H	NH-methyl
H	acyl	SH	H	NH-ethyl
H	acyl	SH	H	NH-acetyl
H	acyl	SH	H	OH
H	acyl	SH	H	OMe
H	acyl	SH	H	OEt
H	acyl	SH	H	O-cyclopropyl
H	acyl	SH	H	O-acetyl
H	acyl	SH	H	SH

R^2	R^3	X^1	X^2	Y
H	acyl	SH	H	SMe
H	acyl	SH	H	SEt
H	acyl	SH	H	S-cyclopropyl
H	acyl	SH	H	F
H	acyl	SH	H	Cl
H	acyl	SH	H	Br
H	acyl	SH	H	I
H	amino acid	SH	H	H
H	amino acid	SH	H	NH_2
H	amino acid	SH	H	NH-cyclopropyl
H	amino acid	SH	H	NH-methyl
H	amino acid	SH	H	NH-ethyl
H	amino acid	SH	H	NH-acetyl
H	amino acid	SH	H	OH
H	amino acid	SH	H	OMe
H	amino acid	SH	H	OEt
H	amino acid	SH	H	O-cyclopropyl
H	amino acid	SH	H	O-acetyl
H	amino acid	SH	H	SH
H	amino acid	SH	H	SMe
H	amino acid	SH	H	SEt
H	amino acid	SH	H	S-cyclopropyl
H	amino acid	SH	H	F
H	amino acid	SH	H	Cl
H	amino acid	SH	H	Br
H	amino acid	SH	H	I
amino acid	amino acid	SH	H	H
amino acid	amino acid	SH	H	NH_2
amino acid	amino acid	SH	H	NH-cyclopropyl
amino acid	amino acid	SH	H	NH-methyl
amino acid	amino acid	SH	H	NH-ethyl
amino acid	amino acid	SH	H	NH-acetyl
amino acid	amino acid	SH	H	OH
amino acid	amino acid	SH	H	OMe
amino acid	amino acid	SH	H	OEt
amino acid	amino acid	SH	H	O-cyclopropyl
amino acid	amino acid	SH	H	O-acetyl
amino acid	amino acid	SH	H	SH
amino acid	amino acid	SH	H	SMe
amino acid	amino acid	SH	H	SEt
amino acid	amino acid	SH	H	S-cyclopropyl
amino acid	amino acid	SH	H	F
amino acid	amino acid	SH	H	Cl
amino acid	amino acid	SH	H	Br
amino acid	amino acid	SH	H	I
amino acid	H	SH	H	H
amino acid	H	SH	H	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	H	NH-cyclopropyl
amino acid	H	SH	H	NH-methyl
amino acid	H	SH	H	NH-ethyl
amino acid	H	SH	H	NH-acetyl
amino acid	H	SH	H	OH
amino acid	H	SH	H	OMe
amino acid	H	SH	H	OEt
amino acid	H	SH	H	O-cyclopropyl
amino acid	H	SH	H	O-acetyl
amino acid	H	SH	H	SH
amino acid	H	SH	H	SMe
amino acid	H	SH	H	SEt
amino acid	H	SH	H	S-cyclopropyl
amino acid	H	SH	H	F
amino acid	H	SH	H	Cl
amino acid	H	SH	H	Br
amino acid	H	SH	H	I
amino acid	acyl	SH	H	H
amino acid	acyl	SH	H	NH_2
amino acid	acyl	SH	H	NH-cyclopropyl
amino acid	acyl	SH	H	NH-methyl
amino acid	acyl	SH	H	NH-ethyl
amino acid	acyl	SH	H	NH-acetyl
amino acid	acyl	SH	H	OH
amino acid	acyl	SH	H	OMe
amino acid	acyl	SH	H	OEt
amino acid	acyl	SH	H	O-cyclopropyl
amino acid	acyl	SH	H	O-acetyl
amino acid	acyl	SH	H	SH
amino acid	acyl	SH	H	SMe
amino acid	acyl	SH	H	SEt
amino acid	acyl	SH	H	S-cyclopropyl
amino acid	acyl	SH	H	F
amino acid	acyl	SH	H	Cl
amino acid	acyl	SH	H	Br
amino acid	acyl	SH	H	I
acyl	H	SH	F	H
acyl	H	SH	F	NH_2
acyl	H	SH	F	NH-cyclopropyl
acyl	H	SH	F	NH-methyl
acyl	H	SH	F	NH-ethyl
acyl	H	SH	F	NH-acetyl
acyl	H	SH	F	OH
acyl	H	SH	F	OMe
acyl	H	SH	F	OEt
acyl	H	SH	F	O-cyclopropyl
acyl	H	SH	F	O-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	SH	F	SH
acyl	H	SH	F	SMe
acyl	H	SH	F	SEt
acyl	H	SH	F	S-cyclopropyl
acyl	H	SH	F	F
acyl	H	SH	F	Cl
acyl	H	SH	F	Br
acyl	H	SH	F	I
acyl	acyl	SH	F	H
acyl	acyl	SH	F	NH_2
acyl	acyl	SH	F	NH-cyclopropyl
acyl	acyl	SH	F	NH-methyl
acyl	acyl	SH	F	NH-ethyl
acyl	acyl	SH	F	NH-acetyl
acyl	acyl	SH	F	OH
acyl	acyl	SH	F	OMe
acyl	acyl	SH	F	OEt
acyl	acyl	SH	F	O-cyclopropyl
acyl	acyl	SH	F	O-acetyl
acyl	acyl	SH	F	SH
acyl	acyl	SH	F	SMe
acyl	acyl	SH	F	SEt
acyl	acyl	SH	F	S-cyclopropyl
acyl	acyl	SH	F	F
acyl	acyl	SH	F	Cl
acyl	acyl	SH	F	Br
acyl	acyl	SH	F	I
acyl	amino acid	SH	F	H
acyl	amino acid	SH	F	NH_2
acyl	amino acid	SH	F	NH-cyclopropyl
acyl	amino acid	SH	F	NH-methyl
acyl	amino acid	SH	F	NH-ethyl
acyl	amino acid	SH	F	NH-acetyl
acyl	amino acid	SH	F	OH
acyl	amino acid	SH	F	OMe
acyl	amino acid	SH	F	OEt
acyl	amino acid	SH	F	O-cyclopropyl
acyl	amino acid	SH	F	O-acetyl
acyl	amino acid	SH	F	SH
acyl	amino acid	SH	F	SMe
acyl	amino acid	SH	F	SEt
acyl	amino acid	SH	F	S-cyclopropyl
acyl	amino acid	SH	F	F
acyl	amino acid	SH	F	Cl
acyl	amino acid	SH	F	Br
acyl	amino acid	SH	F	I
H	acyl	SH	F	H

R^2	R^3	X^1	X^2	Y
H	acyl	SH	F	NH_2
H	acyl	SH	F	NH-cyclopropyl
H	acyl	SH	F	NH-methyl
H	acyl	SH	F	NH-ethyl
H	acyl	SH	F	NH-acetyl
H	acyl	SH	F	OH
H	acyl	SH	F	OMe
H	acyl	SH	F	OEt
H	acyl	SH	F	O-cyclopropyl
H	acyl	SH	F	O-acetyl
H	acyl	SH	F	SH
H	acyl	SH	F	SMe
H	acyl	SH	F	SEt
H	acyl	SH	F	S-cyclopropyl
H	acyl	SH	F	F
H	acyl	SH	F	Cl
H	acyl	SH	F	Br
H	acyl	SH	F	I
H	amino acid	SH	F	H
H	amino acid	SH	F	NH_2
H	amino acid	SH	F	NH-cyclopropyl
H	amino acid	SH	F	NH-methyl
H	amino acid	SH	F	NH-ethyl
H	amino acid	SH	F	NH-acetyl
H	amino acid	SH	F	OH
H	amino acid	SH	F	OMe
H	amino acid	SH	F	OEt
H	amino acid	SH	F	O-cyclopropyl
H	amino acid	SH	F	O-acetyl
H	amino acid	SH	F	SH
H	amino acid	SH	F	SMe
H	amino acid	SH	F	SEt
H	amino acid	SH	F	S-cyclopropyl
H	amino acid	SH	F	F
H	amino acid	SH	F	Cl
H	amino acid	SH	F	Br
H	amino acid	SH	F	I
amino acid	amino acid	SH	F	H
amino acid	amino acid	SH	F	NH_2
amino acid	amino acid	SH	F	NH-cyclopropyl
amino acid	amino acid	SH	F	NH-methyl
amino acid	amino acid	SH	F	NH-ethyl
amino acid	amino acid	SH	F	NH-acetyl
amino acid	amino acid	SH	F	OH
amino acid	amino acid	SH	F	OMe
amino acid	amino acid	SH	F	OEt
amino acid	amino acid	SH	F	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	SH	F	O-acetyl
amino acid	amino acid	SH	F	SH
amino acid	amino acid	SH	F	SMe
amino acid	amino acid	SH	F	SEt
amino acid	amino acid	SH	F	S-cyclopropyl
amino acid	amino acid	SH	F	F
amino acid	amino acid	SH	F	Cl
amino acid	amino acid	SH	F	Br
amino acid	amino acid	SH	F	I
amino acid	H	SH	F	H
amino acid	H	SH	F	NH_2
amino acid	H	SH	F	NH-cyclopropyl
amino acid	H	SH	F	NH-methyl
amino acid	H	SH	F	NH-ethyl
amino acid	H	SH	F	NH-acetyl
amino acid	H	SH	F	OH
amino acid	H	SH	F	OMe
amino acid	H	SH	F	OEt
amino acid	H	SH	F	O-cyclopropyl
amino acid	H	SH	F	O-acetyl
amino acid	H	SH	F	SH
amino acid	H	SH	F	SMe
amino acid	H	SH	F	SEt
amino acid	H	SH	F	S-cyclopropyl
amino acid	H	SH	F	F
amino acid	H	SH	F	Cl
amino acid	H	SH	F	Br
amino acid	H	SH	F	I
amino acid	acyl	SH	F	H
amino acid	acyl	SH	F	NH_2
amino acid	acyl	SH	F	NH-cyclopropyl
amino acid	acyl	SH	F	NH-methyl
amino acid	acyl	SH	F	NH-ethyl
amino acid	acyl	SH	F	NH-acetyl
amino acid	acyl	SH	F	OH
amino acid	acyl	SH	F	OMe
amino acid	acyl	SH	F	OEt
amino acid	acyl	SH	F	O-cyclopropyl
amino acid	acyl	SH	F	O-acetyl
amino acid	acyl	SH	F	SH
amino acid	acyl	SH	F	SMe
amino acid	acyl	SH	F	SEt
amino acid	acyl	SH	F	S-cyclopropyl
amino acid	acyl	SH	F	F
amino acid	acyl	SH	F	Cl
amino acid	acyl	SH	F	Br
amino acid	acyl	SH	F	I

R^2	R^3	X^1	X^2	Y
acyl	H	SH	Cl	H
acyl	H	SH	Cl	NH_2
acyl	H	SH	Cl	NH-cyclopropyl
acyl	H	SH	Cl	NH-methyl
acyl	H	SH	Cl	NH-ethyl
acyl	H	SH	Cl	NH-acetyl
acyl	H	SH	Cl	OH
acyl	H	SH	Cl	OMe
acyl	H	SH	Cl	OEt
acyl	H	SH	Cl	O-cyclopropyl
acyl	H	SH	Cl	O-acetyl
acyl	H	SH	Cl	SH
acyl	H	SH	Cl	SMe
acyl	H	SH	Cl	SEt
acyl	H	SH	Cl	S-cyclopropyl
acyl	H	SH	Cl	F
acyl	H	SH	Cl	Cl
acyl	H	SH	Cl	Br
acyl	H	SH	Cl	I
acyl	acyl	SH	Cl	H
acyl	acyl	SH	Cl	NH_2
acyl	acyl	SH	Cl	NH-cyclopropyl
acyl	acyl	SH	Cl	NH-methyl
acyl	acyl	SH	Cl	NH-ethyl
acyl	acyl	SH	Cl	NH-acetyl
acyl	acyl	SH	Cl	OH
acyl	acyl	SH	Cl	OMe
acyl	acyl	SH	Cl	OEt
acyl	acyl	SH	Cl	O-cyclopropyl
acyl	acyl	SH	Cl	O-acetyl
acyl	acyl	SH	Cl	SH
acyl	acyl	SH	Cl	SMe
acyl	acyl	SH	Cl	SEt
acyl	acyl	SH	Cl	S-cyclopropyl
acyl	acyl	SH	Cl	F
acyl	acyl	SH	Cl	Cl
acyl	acyl	SH	Cl	Br
acyl	acyl	SH	Cl	I
acyl	amino acid	SH	Cl	H
acyl	amino acid	SH	Cl	NH_2
acyl	amino acid	SH	Cl	NH-cyclopropyl
acyl	amino acid	SH	Cl	NH-methyl
acyl	amino acid	SH	Cl	NH-ethyl
acyl	amino acid	SH	Cl	NH-acetyl
acyl	amino acid	SH	Cl	OH
acyl	amino acid	SH	Cl	OMe
acyl	amino acid	SH	Cl	OEt

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	Cl	O-cyclopropyl
acyl	amino acid	SH	Cl	O-acetyl
acyl	amino acid	SH	Cl	SH
acyl	amino acid	SH	Cl	SMe
acyl	amino acid	SH	Cl	SEt
acyl	amino acid	SH	Cl	S-cyclopropyl
acyl	amino acid	SH	Cl	F
acyl	amino acid	SH	Cl	Cl
acyl	amino acid	SH	Cl	Br
acyl	amino acid	SH	Cl	I
H	acyl	SH	Cl	H
H	acyl	SH	Cl	NH_2
H	acyl	SH	Cl	NH-cyclopropyl
H	acyl	SH	Cl	NH-methyl
H	acyl	SH	Cl	NH-ethyl
H	acyl	SH	Cl	NH-acetyl
H	acyl	SH	Cl	OH
H	acyl	SH	Cl	OMe
H	acyl	SH	Cl	OEt
H	acyl	SH	Cl	O-cyclopropyl
H	acyl	SH	Cl	O-acetyl
H	acyl	SH	Cl	SH
H	acyl	SH	Cl	SMe
H	acyl	SH	Cl	SEt
H	acyl	SH	Cl	S-cyclopropyl
H	acyl	SH	Cl	F
H	acyl	SH	Cl	Cl
H	acyl	SH	Cl	Br
H	acyl	SH	Cl	I
H	amino acid	SH	Cl	H
H	amino acid	SH	Cl	NH_2
H	amino acid	SH	Cl	NH-cyclopropyl
H	amino acid	SH	Cl	NH-methyl
H	amino acid	SH	Cl	NH-ethyl
H	amino acid	SH	Cl	NH-acetyl
H	amino acid	SH	Cl	OH
H	amino acid	SH	Cl	OMe
H	amino acid	SH	Cl	OEt
H	amino acid	SH	Cl	O-cyclopropyl
H	amino acid	SH	Cl	O-acetyl
H	amino acid	SH	Cl	SH
H	amino acid	SH	Cl	SMe
H	amino acid	SH	Cl	SEt
H	amino acid	SH	Cl	S-cyclopropyl
H	amino acid	SH	Cl	F
H	amino acid	SH	Cl	Cl
H	amino acid	SH	Cl	Br

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Cl	I
amino acid	amino acid	SH	Cl	H
amino acid	amino acid	SH	Cl	NH_2
amino acid	amino acid	SH	Cl	NH-cyclopropyl
amino acid	amino acid	SH	Cl	NH-methyl
amino acid	amino acid	SH	Cl	NH-ethyl
amino acid	amino acid	SH	Cl	NH-acetyl
amino acid	amino acid	SH	Cl	OH
amino acid	amino acid	SH	Cl	OMe
amino acid	amino acid	SH	Cl	OEt
amino acid	amino acid	SH	Cl	O-cyclopropyl
amino acid	amino acid	SH	Cl	O-acetyl
amino acid	amino acid	SH	Cl	SH
amino acid	amino acid	SH	Cl	SMe
amino acid	amino acid	SH	Cl	SEt
amino acid	amino acid	SH	Cl	S-cyclopropyl
amino acid	amino acid	SH	Cl	F
amino acid	amino acid	SH	Cl	Cl
amino acid	amino acid	SH	Cl	Br
amino acid	amino acid	SH	Cl	I
amino acid	H	SH	Cl	H
amino acid	H	SH	Cl	NH_2
amino acid	H	SH	Cl	NH-cyclopropyl
amino acid	H	SH	Cl	NH-methyl
amino acid	H	SH	Cl	NH-ethyl
amino acid	H	SH	Cl	NH-acetyl
amino acid	H	SH	Cl	OH
amino acid	H	SH	Cl	OMe
amino acid	H	SH	Cl	OEt
amino acid	H	SH	Cl	O-cyclopropyl
amino acid	H	SH	Cl	O-acetyl
amino acid	H	SH	Cl	SH
amino acid	H	SH	Cl	SMe
amino acid	H	SH	Cl	SEt
amino acid	H	SH	Cl	S-cyclopropyl
amino acid	H	SH	Cl	F
amino acid	H	SH	Cl	Cl
amino acid	H	SH	Cl	Br
amino acid	H	SH	Cl	I
amino acid	acyl	SH	Cl	H
amino acid	acyl	SH	Cl	NH_2
amino acid	acyl	SH	Cl	NH-cyclopropyl
amino acid	acyl	SH	Cl	NH-methyl
amino acid	acyl	SH	Cl	NH-ethyl
amino acid	acyl	SH	Cl	NH-acetyl
amino acid	acyl	SH	Cl	OH
amino acid	acyl	SH	Cl	OMe

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	Cl	OEt
amino acid	acyl	SH	Cl	O-cyclopropyl
amino acid	acyl	SH	Cl	O-acetyl
amino acid	acyl	SH	Cl	SH
amino acid	acyl	SH	Cl	SMe
amino acid	acyl	SH	Cl	SEt
amino acid	acyl	SH	Cl	S-cyclopropyl
amino acid	acyl	SH	Cl	F
amino acid	acyl	SH	Cl	Cl
amino acid	acyl	SH	Cl	Br
amino acid	acyl	SH	Cl	I
acyl	H	SH	Br	H
acyl	H	SH	Br	NH_2
acyl	H	SH	Br	NH-cyclopropyl
acyl	H	SH	Br	NH-methyl
acyl	H	SH	Br	NH-ethyl
acyl	H	SH	Br	NH-acetyl
acyl	H	SH	Br	OH
acyl	H	SH	Br	OMe
acyl	H	SH	Br	OEt
acyl	H	SH	Br	O-cyclopropyl
acyl	H	SH	Br	O-acetyl
acyl	H	SH	Br	SH
acyl	H	SH	Br	SMe
acyl	H	SH	Br	SEt
acyl	H	SH	Br	S-cyclopropyl
acyl	H	SH	Br	F
acyl	H	SH	Br	Cl
acyl	H	SH	Br	Br
acyl	H	SH	Br	I
acyl	acyl	SH	Br	H
acyl	acyl	SH	Br	NH_2
acyl	acyl	SH	Br	NH-cyclopropyl
acyl	acyl	SH	Br	NH-methyl
acyl	acyl	SH	Br	NH-ethyl
acyl	acyl	SH	Br	NH-acetyl
acyl	acyl	SH	Br	OH
acyl	acyl	SH	Br	OMe
acyl	acyl	SH	Br	OEt
acyl	acyl	SH	Br	O-cyclopropyl
acyl	acyl	SH	Br	O-acetyl
acyl	acyl	SH	Br	SH
acyl	acyl	SH	Br	SMe
acyl	acyl	SH	Br	SEt
acyl	acyl	SH	Br	S-cyclopropyl
acyl	acyl	SH	Br	F
acyl	acyl	SH	Br	Cl

R^2	R^3	X^1	X^2	Y
acyl	acyl	SH	Br	Br
acyl	acyl	SH	Br	I
acyl	amino acid	SH	Br	H
acyl	amino acid	SH	Br	NH_2
acyl	amino acid	SH	Br	NH-cyclopropyl
acyl	amino acid	SH	Br	NH-methyl
acyl	amino acid	SH	Br	NH-ethyl
acyl	amino acid	SH	Br	NH-acetyl
acyl	amino acid	SH	Br	OH
acyl	amino acid	SH	Br	OMe
acyl	amino acid	SH	Br	OEt
acyl	amino acid	SH	Br	O-cyclopropyl
acyl	amino acid	SH	Br	O-acetyl
acyl	amino acid	SH	Br	SH
acyl	amino acid	SH	Br	SMe
acyl	amino acid	SH	Br	SEt
acyl	amino acid	SH	Br	S-cyclopropyl
acyl	amino acid	SH	Br	F
acyl	amino acid	SH	Br	Cl
acyl	amino acid	SH	Br	Br
acyl	amino acid	SH	Br	I
H	acyl	SH	Br	H
H	acyl	SH	Br	NH_2
H	acyl	SH	Br	NH-cyclopropyl
H	acyl	SH	Br	NH-methyl
H	acyl	SH	Br	NH-ethyl
H	acyl	SH	Br	NH-acetyl
H	acyl	SH	Br	OH
H	acyl	SH	Br	OMe
H	acyl	SH	Br	OEt
H	acyl	SH	Br	O-cyclopropyl
H	acyl	SH	Br	O-acetyl
H	acyl	SH	Br	SH
H	acyl	SH	Br	SMe
H	acyl	SH	Br	SEt
H	acyl	SH	Br	S-cyclopropyl
H	acyl	SH	Br	F
H	acyl	SH	Br	Cl
H	acyl	SH	Br	Br
H	acyl	SH	Br	I
H	amino acid	SH	Br	H
H	amino acid	SH	Br	NH_2
H	amino acid	SH	Br	NH-cyclopropyl
H	amino acid	SH	Br	NH-methyl
H	amino acid	SH	Br	NH-ethyl
H	amino acid	SH	Br	NH-acetyl
H	amino acid	SH	Br	OH

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	Br	OMe
H	amino acid	SH	Br	OEt
H	amino acid	SH	Br	O-cyclopropyl
H	amino acid	SH	Br	O-acetyl
H	amino acid	SH	Br	SH
H	amino acid	SH	Br	SMe
H	amino acid	SH	Br	SEt
H	amino acid	SH	Br	S-cyclopropyl
H	amino acid	SH	Br	F
H	amino acid	SH	Br	Cl
H	amino acid	SH	Br	Br
H	amino acid	SH	Br	I
amino acid	amino acid	SH	Br	H
amino acid	amino acid	SH	Br	NH_2
amino acid	amino acid	SH	Br	NH-cyclopropyl
amino acid	amino acid	SH	Br	NH-methyl
amino acid	amino acid	SH	Br	NH-ethyl
amino acid	amino acid	SH	Br	NH-acetyl
amino acid	amino acid	SH	Br	OH
amino acid	amino acid	SH	Br	OMe
amino acid	amino acid	SH	Br	OEt
amino acid	amino acid	SH	Br	O-cyclopropyl
amino acid	amino acid	SH	Br	O-acetyl
amino acid	amino acid	SH	Br	SH
amino acid	amino acid	SH	Br	SMe
amino acid	amino acid	SH	Br	SEt
amino acid	amino acid	SH	Br	S-cyclopropyl
amino acid	amino acid	SH	Br	F
amino acid	amino acid	SH	Br	Cl
amino acid	amino acid	SH	Br	Br
amino acid	amino acid	SH	Br	I
amino acid	H	SH	Br	H
amino acid	H	SH	Br	NH_2
amino acid	H	SH	Br	NH-cyclopropyl
amino acid	H	SH	Br	NH-methyl
amino acid	H	SH	Br	NH-ethyl
amino acid	H	SH	Br	NH-acetyl
amino acid	H	SH	Br	OH
amino acid	H	SH	Br	OMe
amino acid	H	SH	Br	OEt
amino acid	H	SH	Br	O-cyclopropyl
amino acid	H	SH	Br	O-acetyl
amino acid	H	SH	Br	SH
amino acid	H	SH	Br	SMe
amino acid	H	SH	Br	SEt
amino acid	H	SH	Br	S-cyclopropyl
amino acid	H	SH	Br	F

R^2	R^3	X^1	X^2	Y
amino acid	H	SH	Br	Cl
amino acid	H	SH	Br	Br
amino acid	H	SH	Br	I
amino acid	acyl	SH	Br	H
amino acid	acyl	SH	Br	NH_2
amino acid	acyl	SH	Br	NH-cyclopropyl
amino acid	acyl	SH	Br	NH-methyl
amino acid	acyl	SH	Br	NH-ethyl
amino acid	acyl	SH	Br	NH-acetyl
amino acid	acyl	SH	Br	OH
amino acid	acyl	SH	Br	OMe
amino acid	acyl	SH	Br	OEt
amino acid	acyl	SH	Br	O-cyclopropyl
amino acid	acyl	SH	Br	O-acetyl
amino acid	acyl	SH	Br	SH
amino acid	acyl	SH	Br	SMe
amino acid	acyl	SH	Br	SEt
amino acid	acyl	SH	Br	S-cyclopropyl
amino acid	acyl	SH	Br	F
amino acid	acyl	SH	Br	Cl
amino acid	acyl	SH	Br	Br
amino acid	acyl	SH	Br	I
acyl	H	H	SH	H
acyl	H	H	SH	NH_2
acyl	H	H	SH	NH-cyclopropyl
acyl	H	H	SH	NH-methyl
acyl	H	H	SH	NH-ethyl
acyl	H	H	SH	NH-acetyl
acyl	H	H	SH	OH
acyl	H	H	SH	OMe
acyl	H	H	SH	OEt
acyl	H	H	SH	O-cyclopropyl
acyl	H	H	SH	O-acetyl
acyl	H	H	SH	SH
acyl	H	H	SH	SMe
acyl	H	H	SH	SEt
acyl	H	H	SH	S-cyclopropyl
acyl	H	H	SH	F
acyl	H	H	SH	Cl
acyl	H	H	SH	Br
acyl	H	H	SH	I
acyl	acyl	H	SH	H
acyl	acyl	H	SH	NH_2
acyl	acyl	H	SH	NH-cyclopropyl
acyl	acyl	H	SH	NH-methyl
acyl	acyl	H	SH	NH-ethyl
acyl	acyl	H	SH	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	acyl	H	SH	OH
acyl	acyl	H	SH	OMe
acyl	acyl	H	SH	OEt
acyl	acyl	H	SH	O-cyclopropyl
acyl	acyl	H	SH	O-acetyl
acyl	acyl	H	SH	SH
acyl	acyl	H	SH	SMe
acyl	acyl	H	SH	SEt
acyl	acyl	H	SH	S-cyclopropyl
acyl	acyl	H	SH	F
acyl	acyl	H	SH	Cl
acyl	acyl	H	SH	Br
acyl	acyl	H	SH	I
acyl	amino acid	H	SH	H
acyl	amino acid	H	SH	NH_2
acyl	amino acid	H	SH	NH-cyclopropyl
acyl	amino acid	H	SH	NH-methyl
acyl	amino acid	H	SH	NH-ethyl
acyl	amino acid	H	SH	NH-acetyl
acyl	amino acid	H	SH	OH
acyl	amino acid	H	SH	OMe
acyl	amino acid	H	SH	OEt
acyl	amino acid	H	SH	O-cyclopropyl
acyl	amino acid	H	SH	O-acetyl
acyl	amino acid	H	SH	SH
acyl	amino acid	H	SH	SMe
acyl	amino acid	H	SH	SEt
acyl	amino acid	H	SH	S-cyclopropyl
acyl	amino acid	H	SH	F
acyl	amino acid	H	SH	Cl
acyl	amino acid	H	SH	Br
acyl	amino acid	H	SH	I
H	acyl	H	SH	H
H	acyl	H	SH	NH_2
H	acyl	H	SH	NH-cyclopropyl
H	acyl	H	SH	NH-methyl
H	acyl	H	SH	NH-ethyl
H	acyl	H	SH	NH-acetyl
H	acyl	H	SH	OH
H	acyl	H	SH	OMe
H	acyl	H	SH	OEt
H	acyl	H	SH	O-cyclopropyl
H	acyl	H	SH	O-acetyl
H	acyl	H	SH	SH
H	acyl	H	SH	SMe
H	acyl	H	SH	SEt
H	acyl	H	SH	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	acyl	H	SH	F
H	acyl	H	SH	Cl
H	acyl	H	SH	Br
H	acyl	H	SH	I
H	amino acid	H	SH	H
H	amino acid	H	SH	NH_2
H	amino acid	H	SH	NH-cyclopropyl
H	amino acid	H	SH	NH-methyl
H	amino acid	H	SH	NH-ethyl
H	amino acid	H	SH	NH-acetyl
H	amino acid	H	SH	OH
H	amino acid	H	SH	OMe
H	amino acid	H	SH	OEt
H	amino acid	H	SH	O-cyclopropyl
H	amino acid	H	SH	O-acetyl
H	amino acid	H	SH	SH
H	amino acid	H	SH	SMe
H	amino acid	H	SH	SEt
H	amino acid	H	SH	S-cyclopropyl
H	amino acid	H	SH	F
H	amino acid	H	SH	Cl
H	amino acid	H	SH	Br
H	amino acid	H	SH	I
amino acid	amino acid	H	SH	H
amino acid	amino acid	H	SH	NH_2
amino acid	amino acid	H	SH	NH-cyclopropyl
amino acid	amino acid	H	SH	NH-methyl
amino acid	amino acid	H	SH	NH-ethyl
amino acid	amino acid	H	SH	NH-acetyl
amino acid	amino acid	H	SH	OH
amino acid	amino acid	H	SH	OMe
amino acid	amino acid	H	SH	OEt
amino acid	amino acid	H	SH	O-cyclopropyl
amino acid	amino acid	H	SH	O-acetyl
amino acid	amino acid	H	SH	SH
amino acid	amino acid	H	SH	SMe
amino acid	amino acid	H	SH	SEt
amino acid	amino acid	H	SH	S-cyclopropyl
amino acid	amino acid	H	SH	F
amino acid	amino acid	H	SH	Cl
amino acid	amino acid	H	SH	Br
amino acid	amino acid	H	SH	I
amino acid	H	H	SH	H
amino acid	H	H	SH	NH_2
amino acid	H	H	SH	NH-cyclopropyl
amino acid	H	H	SH	NH-methyl
amino acid	H	H	SH	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	H	H	SH	NH-acetyl
amino acid	H	H	SH	OH
amino acid	H	H	SH	OMe
amino acid	H	H	SH	OEt
amino acid	H	H	SH	O-cyclopropyl
amino acid	H	H	SH	O-acetyl
amino acid	H	H	SH	SH
amino acid	H	H	SH	SMe
amino acid	H	H	SH	SEt
amino acid	H	H	SH	S-cyclopropyl
amino acid	H	H	SH	F
amino acid	H	H	SH	Cl
amino acid	H	H	SH	Br
amino acid	H	H	SH	I
amino acid	acyl	H	SH	H
amino acid	acyl	H	SH	NH_2
amino acid	acyl	H	SH	NH-cyclopropyl
amino acid	acyl	H	SH	NH-methyl
amino acid	acyl	H	SH	NH-ethyl
amino acid	acyl	H	SH	NH-acetyl
amino acid	acyl	H	SH	OH
amino acid	acyl	H	SH	OMe
amino acid	acyl	H	SH	OEt
amino acid	acyl	H	SH	O-cyclopropyl
amino acid	acyl	H	SH	O-acetyl
amino acid	acyl	H	SH	SH
amino acid	acyl	H	SH	SMe
amino acid	acyl	H	SH	SEt
amino acid	acyl	H	SH	S-cyclopropyl
amino acid	acyl	H	SH	F
amino acid	acyl	H	SH	Cl
amino acid	acyl	H	SH	Br
amino acid	acyl	H	SH	I
acyl	H	F	SH	H
acyl	H	F	SH	NH_2
acyl	H	F	SH	NH-cyclopropyl
acyl	H	F	SH	NH-methyl
acyl	H	F	SH	NH-ethyl
acyl	H	F	SH	NH-acetyl
acyl	H	F	SH	OH
acyl	H	F	SH	OMe
acyl	H	F	SH	OEt
acyl	H	F	SH	O-cyclopropyl
acyl	H	F	SH	O-acetyl
acyl	H	F	SH	SH
acyl	H	F	SH	SMe
acyl	H	F	SH	SEt

R^2	R^3	X^1	X^2	Y
acyl	H	F	SH	S-cyclopropyl
acyl	H	F	SH	F
acyl	H	F	SH	Cl
acyl	H	F	SH	Br
acyl	H	F	SH	I
acyl	acyl	F	SH	H
acyl	acyl	F	SH	NH_2
acyl	acyl	F	SH	NH-cyclopropyl
acyl	acyl	F	SH	NH-methyl
acyl	acyl	F	SH	NH-ethyl
acyl	acyl	F	SH	NH-acetyl
acyl	acyl	F	SH	OH
acyl	acyl	F	SH	OMe
acyl	acyl	F	SH	OEt
acyl	acyl	F	SH	O-cyclopropyl
acyl	acyl	F	SH	O-acetyl
acyl	acyl	F	SH	SH
acyl	acyl	F	SH	SMe
acyl	acyl	F	SH	SEt
acyl	acyl	F	SH	S-cyclopropyl
acyl	acyl	F	SH	F
acyl	acyl	F	SH	Cl
acyl	acyl	F	SH	Br
acyl	acyl	F	SH	I
acyl	amino acid	F	SH	H
acyl	amino acid	F	SH	NH_2
acyl	amino acid	F	SH	NH-cyclopropyl
acyl	amino acid	F	SH	NH-methyl
acyl	amino acid	F	SH	NH-ethyl
acyl	amino acid	F	SH	NH-acetyl
acyl	amino acid	F	SH	OH
acyl	amino acid	F	SH	OMe
acyl	amino acid	F	SH	OEt
acyl	amino acid	F	SH	O-cyclopropyl
acyl	amino acid	F	SH	O-acetyl
acyl	amino acid	F	SH	SH
acyl	amino acid	F	SH	SMe
acyl	amino acid	F	SH	SEt
acyl	amino acid	F	SH	S-cyclopropyl
acyl	amino acid	F	SH	F
acyl	amino acid	F	SH	Cl
acyl	amino acid	F	SH	Br
acyl	amino acid	F	SH	I
H	acyl	F	SH	H
H	acyl	F	SH	NH_2
H	acyl	F	SH	NH-cyclopropyl
H	acyl	F	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
H	acyl	F	SH	NH-ethyl
H	acyl	F	SH	NH-acetyl
H	acyl	F	SH	OH
H	acyl	F	SH	OMe
H	acyl	F	SH	OEt
H	acyl	F	SH	O-cyclopropyl
H	acyl	F	SH	O-acetyl
H	acyl	F	SH	SH
H	acyl	F	SH	SMe
H	acyl	F	SH	SEt
H	acyl	F	SH	S-cyclopropyl
H	acyl	F	SH	F
H	acyl	F	SH	Cl
H	acyl	F	SH	Br
H	acyl	F	SH	I
H	amino acid	F	SH	H
H	amino acid	F	SH	NH_2
H	amino acid	F	SH	NH-cyclopropyl
H	amino acid	F	SH	NH-methyl
H	amino acid	F	SH	NH-ethyl
H	amino acid	F	SH	NH-acetyl
H	amino acid	F	SH	OH
H	amino acid	F	SH	OMe
H	amino acid	F	SH	OEt
H	amino acid	F	SH	O-cyclopropyl
H	amino acid	F	SH	O-acetyl
H	amino acid	F	SH	SH
H	amino acid	F	SH	SMe
H	amino acid	F	SH	SEt
H	amino acid	F	SH	S-cyclopropyl
H	amino acid	F	SH	F
H	amino acid	F	SH	Cl
H	amino acid	F	SH	Br
H	amino acid	F	SH	I
amino acid	amino acid	F	SH	H
amino acid	amino acid	F	SH	NH_2
amino acid	amino acid	F	SH	NH-cyclopropyl
amino acid	amino acid	F	SH	NH-methyl
amino acid	amino acid	F	SH	NH-ethyl
amino acid	amino acid	F	SH	NH-acetyl
amino acid	amino acid	F	SH	OH
amino acid	amino acid	F	SH	OMe
amino acid	amino acid	F	SH	OEt
amino acid	amino acid	F	SH	O-cyclopropyl
amino acid	amino acid	F	SH	O-acetyl
amino acid	amino acid	F	SH	SH
amino acid	amino acid	F	SH	SMe

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	F	SH	SEt
amino acid	amino acid	F	SH	S-cyclopropyl
amino acid	amino acid	F	SH	F
amino acid	amino acid	F	SH	Cl
amino acid	amino acid	F	SH	Br
amino acid	amino acid	F	SH	I
amino acid	H	F	SH	H
amino acid	H	F	SH	NH_2
amino acid	H	F	SH	NH-cyclopropyl
amino acid	H	F	SH	NH-methyl
amino acid	H	F	SH	NH-ethyl
amino acid	H	F	SH	NH-acetyl
amino acid	H	F	SH	OH
amino acid	H	F	SH	OMe
amino acid	H	F	SH	OEt
amino acid	H	F	SH	O-cyclopropyl
amino acid	H	F	SH	O-acetyl
amino acid	H	F	SH	SH
amino acid	H	F	SH	SMe
amino acid	H	F	SH	SEt
amino acid	H	F	SH	S-cyclopropyl
amino acid	H	F	SH	F
amino acid	H	F	SH	Cl
amino acid	H	F	SH	Br
amino acid	H	F	SH	I
amino acid	acyl	F	SH	H
amino acid	acyl	F	SH	NH_2
amino acid	acyl	F	SH	NH-cyclopropyl
amino acid	acyl	F	SH	NH-methyl
amino acid	acyl	F	SH	NH-ethyl
amino acid	acyl	F	SH	NH-acetyl
amino acid	acyl	F	SH	OH
amino acid	acyl	F	SH	OMe
amino acid	acyl	F	SH	OEt
amino acid	acyl	F	SH	O-cyclopropyl
amino acid	acyl	F	SH	O-acetyl
amino acid	acyl	F	SH	SH
amino acid	acyl	F	SH	SMe
amino acid	acyl	F	SH	SEt
amino acid	acyl	F	SH	S-cyclopropyl
amino acid	acyl	F	SH	F
amino acid	acyl	F	SH	Cl
amino acid	acyl	F	SH	Br
amino acid	acyl	F	SH	I
acyl	H	Cl	SH	H
acyl	H	Cl	SH	NH_2
acyl	H	Cl	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	SH	NH-methyl
acyl	H	Cl	SH	NH-ethyl
acyl	H	Cl	SH	NH-acetyl
acyl	H	Cl	SH	OH
acyl	H	Cl	SH	OMe
acyl	H	Cl	SH	OEt
acyl	H	Cl	SH	O-cyclopropyl
acyl	H	Cl	SH	O-acetyl
acyl	H	Cl	SH	SH
acyl	H	Cl	SH	SMe
acyl	H	Cl	SH	SEt
acyl	H	Cl	SH	S-cyclopropyl
acyl	H	Cl	SH	F
acyl	H	Cl	SH	Cl
acyl	H	Cl	SH	Br
acyl	H	Cl	SH	I
acyl	acyl	Cl	SH	H
acyl	acyl	Cl	SH	NH_2
acyl	acyl	Cl	SH	NH-cyclopropyl
acyl	acyl	Cl	SH	NH-methyl
acyl	acyl	Cl	SH	NH-ethyl
acyl	acyl	Cl	SH	NH-acetyl
acyl	acyl	Cl	SH	OH
acyl	acyl	Cl	SH	OMe
acyl	acyl	Cl	SH	OEt
acyl	acyl	Cl	SH	O-cyclopropyl
acyl	acyl	Cl	SH	O-acetyl
acyl	acyl	Cl	SH	SH
acyl	acyl	Cl	SH	SMe
acyl	acyl	Cl	SH	SEt
acyl	acyl	Cl	SH	S-cyclopropyl
acyl	acyl	Cl	SH	F
acyl	acyl	Cl	SH	Cl
acyl	acyl	Cl	SH	Br
acyl	acyl	Cl	SH	I
acyl	amino acid	Cl	SH	H
acyl	amino acid	Cl	SH	NH_2
acyl	amino acid	Cl	SH	NH-cyclopropyl
acyl	amino acid	Cl	SH	NH-methyl
acyl	amino acid	Cl	SH	NH-ethyl
acyl	amino acid	Cl	SH	NH-acetyl
acyl	amino acid	Cl	SH	OH
acyl	amino acid	Cl	SH	OMe
acyl	amino acid	Cl	SH	OEt
acyl	amino acid	Cl	SH	O-cyclopropyl
acyl	amino acid	Cl	SH	O-acetyl
acyl	amino acid	Cl	SH	SH

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Cl	SH	SMe
acyl	amino acid	Cl	SH	SEt
acyl	amino acid	Cl	SH	S-cyclopropyl
acyl	amino acid	Cl	SH	F
acyl	amino acid	Cl	SH	Cl
acyl	amino acid	Cl	SH	Br
acyl	amino acid	Cl	SH	I
H	acyl	Cl	SH	H
H	acyl	Cl	SH	NH_2
H	acyl	Cl	SH	NH-cyclopropyl
H	acyl	Cl	SH	NH-methyl
H	acyl	Cl	SH	NH-ethyl
H	acyl	Cl	SH	NH-acetyl
H	acyl	Cl	SH	OH
H	acyl	Cl	SH	OMe
H	acyl	Cl	SH	OEt
H	acyl	Cl	SH	O-cyclopropyl
H	acyl	Cl	SH	O-acetyl
H	acyl	Cl	SH	SH
H	acyl	Cl	SH	SMe
H	acyl	Cl	SH	SEt
H	acyl	Cl	SH	S-cyclopropyl
H	acyl	Cl	SH	F
H	acyl	Cl	SH	Cl
H	acyl	Cl	SH	Br
H	acyl	Cl	SH	I
H	amino acid	Cl	SH	H
H	amino acid	Cl	SH	NH_2
H	amino acid	Cl	SH	NH-cyclopropyl
H	amino acid	Cl	SH	NH-methyl
H	amino acid	Cl	SH	NH-ethyl
H	amino acid	Cl	SH	NH-acetyl
H	amino acid	Cl	SH	OH
H	amino acid	Cl	SH	OMe
H	amino acid	Cl	SH	OEt
H	amino acid	Cl	SH	O-cyclopropyl
H	amino acid	Cl	SH	O-acetyl
H	amino acid	Cl	SH	SH
H	amino acid	Cl	SH	SMe
H	amino acid	Cl	SH	SEt
H	amino acid	Cl	SH	S-cyclopropyl
H	amino acid	Cl	SH	F
H	amino acid	Cl	SH	Cl
H	amino acid	Cl	SH	Br
H	amino acid	Cl	SH	I
amino acid	amino acid	Cl	SH	H
amino acid	amino acid	Cl	SH	NH_2

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	SH	NH-cyclopropyl
amino acid	amino acid	Cl	SH	NH-methyl
amino acid	amino acid	Cl	SH	NH-ethyl
amino acid	amino acid	Cl	SH	NH-acetyl
amino acid	amino acid	Cl	SH	OH
amino acid	amino acid	Cl	SH	OMe
amino acid	amino acid	Cl	SH	OEt
amino acid	amino acid	Cl	SH	O-cyclopropyl
amino acid	amino acid	Cl	SH	O-acetyl
amino acid	amino acid	Cl	SH	SH
amino acid	amino acid	Cl	SH	SMe
amino acid	amino acid	Cl	SH	SEt
amino acid	amino acid	Cl	SH	S-cyclopropyl
amino acid	amino acid	Cl	SH	F
amino acid	amino acid	Cl	SH	Cl
amino acid	amino acid	Cl	SH	Br
amino acid	amino acid	Cl	SH	I
amino acid	H	Cl	SH	H
amino acid	H	Cl	SH	NH_2
amino acid	H	Cl	SH	NH-cyclopropyl
amino acid	H	Cl	SH	NH-methyl
amino acid	H	Cl	SH	NH-ethyl
amino acid	H	Cl	SH	NH-acetyl
amino acid	H	Cl	SH	OH
amino acid	H	Cl	SH	OMe
amino acid	H	Cl	SH	OEt
amino acid	H	Cl	SH	O-cyclopropyl
amino acid	H	Cl	SH	O-acetyl
amino acid	H	Cl	SH	SH
amino acid	H	Cl	SH	SMe
amino acid	H	Cl	SH	SEt
amino acid	H	Cl	SH	S-cyclopropyl
amino acid	H	Cl	SH	F
amino acid	H	Cl	SH	Cl
amino acid	H	Cl	SH	Br
amino acid	H	Cl	SH	I
amino acid	acyl	Cl	SH	H
amino acid	acyl	Cl	SH	NH_2
amino acid	acyl	Cl	SH	NH-cyclopropyl
amino acid	acyl	Cl	SH	NH-methyl
amino acid	acyl	Cl	SH	NH-ethyl
amino acid	acyl	Cl	SH	NH-acetyl
amino acid	acyl	Cl	SH	OH
amino acid	acyl	Cl	SH	OMe
amino acid	acyl	Cl	SH	OEt
amino acid	acyl	Cl	SH	O-cyclopropyl
amino acid	acyl	Cl	SH	O-acetyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Cl	SH	SH
amino acid	acyl	Cl	SH	SMe
amino acid	acyl	Cl	SH	SEt
amino acid	acyl	Cl	SH	S-cyclopropyl
amino acid	acyl	Cl	SH	F
amino acid	acyl	Cl	SH	Cl
amino acid	acyl	Cl	SH	Br
amino acid	acyl	Cl	SH	I
acyl	H	Br	SH	H
acyl	H	Br	SH	NH_2
acyl	H	Br	SH	NH-cyclopropyl
acyl	H	Br	SH	NH-methyl
acyl	H	Br	SH	NH-ethyl
acyl	H	Br	SH	NH-acetyl
acyl	H	Br	SH	OH
acyl	H	Br	SH	OMe
acyl	H	Br	SH	OEt
acyl	H	Br	SH	O-cyclopropyl
acyl	H	Br	SH	O-acetyl
acyl	H	Br	SH	SH
acyl	H	Br	SH	SMe
acyl	H	Br	SH	SEt
acyl	H	Br	SH	S-cyclopropyl
acyl	H	Br	SH	F
acyl	H	Br	SH	Cl
acyl	H	Br	SH	Br
acyl	H	Br	SH	I
acyl	acyl	Br	SH	H
acyl	acyl	Br	SH	NH_2
acyl	acyl	Br	SH	NH-cyclopropyl
acyl	acyl	Br	SH	NH-methyl
acyl	acyl	Br	SH	NH-ethyl
acyl	acyl	Br	SH	NH-acetyl
acyl	acyl	Br	SH	OH
acyl	acyl	Br	SH	OMe
acyl	acyl	Br	SH	OEt
acyl	acyl	Br	SH	O-cyclopropyl
acyl	acyl	Br	SH	O-acetyl
acyl	acyl	Br	SH	SH
acyl	acyl	Br	SH	SMe
acyl	acyl	Br	SH	SEt
acyl	acyl	Br	SH	S-cyclopropyl
acyl	acyl	Br	SH	F
acyl	acyl	Br	SH	Cl
acyl	acyl	Br	SH	Br
acyl	acyl	Br	SH	I
acyl	amino acid	Br	SH	H

R^2	R^3	X^1	X^2	Y
acyl	amino acid	Br	SH	NH_2
acyl	amino acid	Br	SH	NH-cyclopropyl
acyl	amino acid	Br	SH	NH-methyl
acyl	amino acid	Br	SH	NH-ethyl
acyl	amino acid	Br	SH	NH-acetyl
acyl	amino acid	Br	SH	OH
acyl	amino acid	Br	SH	OMe
acyl	amino acid	Br	SH	OEt
acyl	amino acid	Br	SH	O-cyclopropyl
acyl	amino acid	Br	SH	O-acetyl
acyl	amino acid	Br	SH	SH
acyl	amino acid	Br	SH	SMe
acyl	amino acid	Br	SH	SEt
acyl	amino acid	Br	SH	S-cyclopropyl
acyl	amino acid	Br	SH	F
acyl	amino acid	Br	SH	Cl
acyl	amino acid	Br	SH	Br
acyl	amino acid	Br	SH	I
H	acyl	Br	SH	H
H	acyl	Br	SH	NH_2
H	acyl	Br	SH	NH-cyclopropyl
H	acyl	Br	SH	NH-methyl
H	acyl	Br	SH	NH-ethyl
H	acyl	Br	SH	NH-acetyl
H	acyl	Br	SH	OH
H	acyl	Br	SH	OMe
H	acyl	Br	SH	OEt
H	acyl	Br	SH	O-cyclopropyl
H	acyl	Br	SH	O-acetyl
H	acyl	Br	SH	SH
H	acyl	Br	SH	SMe
H	acyl	Br	SH	SEt
H	acyl	Br	SH	S-cyclopropyl
H	acyl	Br	SH	F
H	acyl	Br	SH	Cl
H	acyl	Br	SH	Br
H	acyl	Br	SH	I
H	amino acid	Br	SH	H
H	amino acid	Br	SH	NH_2
H	amino acid	Br	SH	NH-cyclopropyl
H	amino acid	Br	SH	NH-methyl
H	amino acid	Br	SH	NH-ethyl
H	amino acid	Br	SH	NH-acetyl
H	amino acid	Br	SH	OH
H	amino acid	Br	SH	OMe
H	amino acid	Br	SH	OEt
H	amino acid	Br	SH	O-cyclopropyl

R^2	R^3	X^1	X^2	Y
H	amino acid	Br	SH	O-acetyl
H	amino acid	Br	SH	SH
H	amino acid	Br	SH	SMe
H	amino acid	Br	SH	SEt
H	amino acid	Br	SH	S-cyclopropyl
H	amino acid	Br	SH	F
H	amino acid	Br	SH	Cl
H	amino acid	Br	SH	Br
H	amino acid	Br	SH	I
amino acid	amino acid	Br	SH	H
amino acid	amino acid	Br	SH	NH_2
amino acid	amino acid	Br	SH	NH-cyclopropyl
amino acid	amino acid	Br	SH	NH-methyl
amino acid	amino acid	Br	SH	NH-ethyl
amino acid	amino acid	Br	SH	NH-acetyl
amino acid	amino acid	Br	SH	OH
amino acid	amino acid	Br	SH	OMe
amino acid	amino acid	Br	SH	OEt
amino acid	amino acid	Br	SH	O-cyclopropyl
amino acid	amino acid	Br	SH	O-acetyl
amino acid	amino acid	Br	SH	SH
amino acid	amino acid	Br	SH	SMe
amino acid	amino acid	Br	SH	SEt
amino acid	amino acid	Br	SH	S-cyclopropyl
amino acid	amino acid	Br	SH	F
amino acid	amino acid	Br	SH	Cl
amino acid	amino acid	Br	SH	Br
amino acid	amino acid	Br	SH	I
amino acid	H	Br	SH	H
amino acid	H	Br	SH	NH_2
amino acid	H	Br	SH	NH-cyclopropyl
amino acid	H	Br	SH	NH-methyl
amino acid	H	Br	SH	NH-ethyl
amino acid	H	Br	SH	NH-acetyl
amino acid	H	Br	SH	OH
amino acid	H	Br	SH	OMe
amino acid	H	Br	SH	OEt
amino acid	H	Br	SH	O-cyclopropyl
amino acid	H	Br	SH	O-acetyl
amino acid	H	Br	SH	SH
amino acid	H	Br	SH	SMe
amino acid	H	Br	SH	SEt
amino acid	H	Br	SH	S-cyclopropyl
amino acid	H	Br	SH	F
amino acid	H	Br	SH	Cl
amino acid	H	Br	SH	Br
amino acid	H	Br	SH	I

R^2	R^3	X^1	X^2	Y
amino acid	acyl	Br	SH	H
amino acid	acyl	Br	SH	NH_2
amino acid	acyl	Br	SH	NH-cyclopropyl
amino acid	acyl	Br	SH	NH-methyl
amino acid	acyl	Br	SH	NH-ethyl
amino acid	acyl	Br	SH	NH-acetyl
amino acid	acyl	Br	SH	OH
amino acid	acyl	Br	SH	OMe
amino acid	acyl	Br	SH	OEt
amino acid	acyl	Br	SH	O-cyclopropyl
amino acid	acyl	Br	SH	O-acetyl
amino acid	acyl	Br	SH	SH
amino acid	acyl	Br	SH	SMe
amino acid	acyl	Br	SH	SEt
amino acid	acyl	Br	SH	S-cyclopropyl
amino acid	acyl	Br	SH	F
amino acid	acyl	Br	SH	Cl
amino acid	acyl	Br	SH	Br
amino acid	acyl	Br	SH	I
acyl	H	F	F	H
acyl	H	F	F	NH_2
acyl	H	F	F	NH-cyclopropyl
acyl	H	F	F	NH-methyl
acyl	H	F	F	NH-ethyl
acyl	H	F	F	NH-acetyl
acyl	H	F	F	OH
acyl	H	F	F	OMe
acyl	H	F	F	OEt
acyl	H	F	F	O-cyclopropyl
acyl	H	F	F	O-acetyl
acyl	H	F	F	SH
acyl	H	F	F	SMe
acyl	H	F	F	SEt
acyl	H	F	F	S-cyclopropyl
acyl	H	F	F	F
acyl	H	F	F	Cl
acyl	H	F	F	Br
acyl	H	F	F	I
acyl	acyl	F	F	H
acyl	acyl	F	F	NH_2
acyl	acyl	F	F	NH-cyclopropyl
acyl	acyl	F	F	NH-methyl
acyl	acyl	F	F	NH-ethyl
acyl	acyl	F	F	NH-acetyl
acyl	acyl	F	F	OH
acyl	acyl	F	F	OMe
acyl	acyl	F	F	OEt

R^2	R^3	X^1	X^2	Y
acyl	acyl	F	F	O-cyclopropyl
acyl	acyl	F	F	O-acetyl
acyl	acyl	F	F	SH
acyl	acyl	F	F	SMe
acyl	acyl	F	F	SEt
acyl	acyl	F	F	S-cyclopropyl
acyl	acyl	F	F	F
acyl	acyl	F	F	Cl
acyl	acyl	F	F	Br
acyl	acyl	F	F	I
acyl	amino acid	F	F	H
acyl	amino acid	F	F	NH_2
acyl	amino acid	F	F	NH-cyclopropyl
acyl	amino acid	F	F	NH-methyl
acyl	amino acid	F	F	NH-ethyl
acyl	amino acid	F	F	NH-acetyl
acyl	amino acid	F	F	OH
acyl	amino acid	F	F	OMe
acyl	amino acid	F	F	OEt
acyl	amino acid	F	F	O-cyclopropyl
acyl	amino acid	F	F	O-acetyl
acyl	amino acid	F	F	SH
acyl	amino acid	F	F	SMe
acyl	amino acid	F	F	SEt
acyl	amino acid	F	F	S-cyclopropyl
acyl	amino acid	F	F	F
acyl	amino acid	F	F	Cl
acyl	amino acid	F	F	Br
acyl	amino acid	F	F	I
H	acyl	F	F	H
H	acyl	F	F	NH_2
H	acyl	F	F	NH-cyclopropyl
H	acyl	F	F	NH-methyl
H	acyl	F	F	NH-ethyl
H	acyl	F	F	NH-acetyl
H	acyl	F	F	OH
H	acyl	F	F	OMe
H	acyl	F	F	OEt
H	acyl	F	F	O-cyclopropyl
H	acyl	F	F	O-acetyl
H	acyl	F	F	SH
H	acyl	F	F	SMe
H	acyl	F	F	SEt
H	acyl	F	F	S-cyclopropyl
H	acyl	F	F	F
H	acyl	F	F	Cl
H	acyl	F	F	Br

R^2	R^3	X^1	X^2	Y
H	acyl	F	F	I
H	amino acid	F	F	H
H	amino acid	F	F	NH_2
H	amino acid	F	F	NH-cyclopropyl
H	amino acid	F	F	NH-methyl
H	amino acid	F	F	NH-ethyl
H	amino acid	F	F	NH-acetyl
H	amino acid	F	F	OH
H	amino acid	F	F	OMe
H	amino acid	F	F	OEt
H	amino acid	F	F	O-cyclopropyl
H	amino acid	F	F	O-acetyl
H	amino acid	F	F	SH
H	amino acid	F	F	SMe
H	amino acid	F	F	SEt
H	amino acid	F	F	S-cyclopropyl
H	amino acid	F	F	F
H	amino acid	F	F	Cl
H	amino acid	F	F	Br
H	amino acid	F	F	I
amino acid	amino acid	F	F	H
amino acid	amino acid	F	F	NH_2
amino acid	amino acid	F	F	NH-cyclopropyl
amino acid	amino acid	F	F	NH-methyl
amino acid	amino acid	F	F	NH-ethyl
amino acid	amino acid	F	F	NH-acetyl
amino acid	amino acid	F	F	OH
amino acid	amino acid	F	F	OMe
amino acid	amino acid	F	F	OEt
amino acid	amino acid	F	F	O-cyclopropyl
amino acid	amino acid	F	F	O-acetyl
amino acid	amino acid	F	F	SH
amino acid	amino acid	F	F	SMe
amino acid	amino acid	F	F	SEt
amino acid	amino acid	F	F	S-cyclopropyl
amino acid	amino acid	F	F	F
amino acid	amino acid	F	F	Cl
amino acid	amino acid	F	F	Br
amino acid	amino acid	F	F	I
amino acid	H	F	F	H
amino acid	H	F	F	NH_2
amino acid	H	F	F	NH-cyclopropyl
amino acid	H	F	F	NH-methyl
amino acid	H	F	F	NH-ethyl
amino acid	H	F	F	NH-acetyl
amino acid	H	F	F	OH
amino acid	H	F	F	OMe

R^2	R^3	X^1	X^2	Y
amino acid	H	F	F	OEt
amino acid	H	F	F	O-cyclopropyl
amino acid	H	F	F	O-acetyl
amino acid	H	F	F	SH
amino acid	H	F	F	SMe
amino acid	H	F	F	SEt
amino acid	H	F	F	S-cyclopropyl
amino acid	H	F	F	F
amino acid	H	F	F	Cl
amino acid	H	F	F	Br
amino acid	H	F	F	I
amino acid	acyl	F	F	H
amino acid	acyl	F	F	NH_2
amino acid	acyl	F	F	NH-cyclopropyl
amino acid	acyl	F	F	NH-methyl
amino acid	acyl	F	F	NH-ethyl
amino acid	acyl	F	F	NH-acetyl
amino acid	acyl	F	F	OH
amino acid	acyl	F	F	OMe
amino acid	acyl	F	F	OEt
amino acid	acyl	F	F	O-cyclopropyl
amino acid	acyl	F	F	O-acetyl
amino acid	acyl	F	F	SH
amino acid	acyl	F	F	SMe
amino acid	acyl	F	F	SEt
amino acid	acyl	F	F	S-cyclopropyl
amino acid	acyl	F	F	F
amino acid	acyl	F	F	Cl
amino acid	acyl	F	F	Br
amino acid	acyl	F	F	I
acyl	H	Cl	Cl	H
acyl	H	Cl	Cl	NH_2
acyl	H	Cl	Cl	NH-cyclopropyl
acyl	H	Cl	Cl	NH-methyl
acyl	H	Cl	Cl	NH-ethyl
acyl	H	Cl	Cl	NH-acetyl
acyl	H	Cl	Cl	OH
acyl	H	Cl	Cl	OMe
acyl	H	Cl	Cl	OEt
acyl	H	Cl	Cl	O-cyclopropyl
acyl	H	Cl	Cl	O-acetyl
acyl	H	Cl	Cl	SH
acyl	H	Cl	Cl	SMe
acyl	H	Cl	Cl	SEt
acyl	H	Cl	Cl	S-cyclopropyl
acyl	H	Cl	Cl	F
acyl	H	Cl	Cl	Cl

R^2	R^3	X^1	X^2	Y
acyl	H	Cl	Cl	Br
acyl	H	Cl	Cl	I
acyl	acyl	Cl	Cl	H
acyl	acyl	Cl	Cl	NH_2
acyl	acyl	Cl	Cl	NH-cyclopropyl
acyl	acyl	Cl	Cl	NH-methyl
acyl	acyl	Cl	Cl	NH-ethyl
acyl	acyl	Cl	Cl	NH-acetyl
acyl	acyl	Cl	Cl	OH
acyl	acyl	Cl	Cl	OMe
acyl	acyl	Cl	Cl	OEt
acyl	acyl	Cl	Cl	O-cyclopropyl
acyl	acyl	Cl	Cl	O-acetyl
acyl	acyl	Cl	Cl	SH
acyl	acyl	Cl	Cl	SMe
acyl	acyl	Cl	Cl	SEt
acyl	acyl	Cl	Cl	S-cyclopropyl
acyl	acyl	Cl	Cl	F
acyl	acyl	Cl	Cl	Cl
acyl	acyl	Cl	Cl	Br
acyl	acyl	Cl	Cl	I
acyl	amino acid	Cl	Cl	H
acyl	amino acid	Cl	Cl	NH_2
acyl	amino acid	Cl	Cl	NH-cyclopropyl
acyl	amino acid	Cl	Cl	NH-methyl
acyl	amino acid	Cl	Cl	NH-ethyl
acyl	amino acid	Cl	Cl	NH-acetyl
acyl	amino acid	Cl	Cl	OH
acyl	amino acid	Cl	Cl	OMe
acyl	amino acid	Cl	Cl	OEt
acyl	amino acid	Cl	Cl	O-cyclopropyl
acyl	amino acid	Cl	Cl	O-acetyl
acyl	amino acid	Cl	Cl	SH
acyl	amino acid	Cl	Cl	SMe
acyl	amino acid	Cl	Cl	SEt
acyl	amino acid	Cl	Cl	S-cyclopropyl
acyl	amino acid	Cl	Cl	F
acyl	amino acid	Cl	Cl	Cl
acyl	amino acid	Cl	Cl	Br
acyl	amino acid	Cl	Cl	I
H	acyl	Cl	Cl	H
H	acyl	Cl	Cl	NH_2
H	acyl	Cl	Cl	NH-cyclopropyl
H	acyl	Cl	Cl	NH-methyl
H	acyl	Cl	Cl	NH-ethyl
H	acyl	Cl	Cl	NH-acetyl
H	acyl	Cl	Cl	OH

R^2	R^3	X^1	X^2	Y
H	acyl	Cl	Cl	OMe
H	acyl	Cl	Cl	OEt
H	acyl	Cl	Cl	O-cyclopropyl
H	acyl	Cl	Cl	O-acetyl
H	acyl	Cl	Cl	SH
H	acyl	Cl	Cl	SMe
H	acyl	Cl	Cl	SEt
H	acyl	Cl	Cl	S-cyclopropyl
H	acyl	Cl	Cl	F
H	acyl	Cl	Cl	Cl
H	acyl	Cl	Cl	Br
H	acyl	Cl	Cl	I
H	amino acid	Cl	Cl	H
H	amino acid	Cl	Cl	NH_2
H	amino acid	Cl	Cl	NH-cyclopropyl
H	amino acid	Cl	Cl	NH-methyl
H	amino acid	Cl	Cl	NH-ethyl
H	amino acid	Cl	Cl	NH-acetyl
H	amino acid	Cl	Cl	OH
H	amino acid	Cl	Cl	OMe
H	amino acid	Cl	Cl	OEt
H	amino acid	Cl	Cl	O-cyclopropyl
H	amino acid	Cl	Cl	O-acetyl
H	amino acid	Cl	Cl	SH
H	amino acid	Cl	Cl	SMe
H	amino acid	Cl	Cl	SEt
H	amino acid	Cl	Cl	S-cyclopropyl
H	amino acid	Cl	Cl	F
H	amino acid	Cl	Cl	Cl
H	amino acid	Cl	Cl	Br
H	amino acid	Cl	Cl	I
amino acid	amino acid	Cl	Cl	H
amino acid	amino acid	Cl	Cl	NH_2
amino acid	amino acid	Cl	Cl	NH-cyclopropyl
amino acid	amino acid	Cl	Cl	NH-methyl
amino acid	amino acid	Cl	Cl	NH-ethyl
amino acid	amino acid	Cl	Cl	NH-acetyl
amino acid	amino acid	Cl	Cl	OH
amino acid	amino acid	Cl	Cl	OMe
amino acid	amino acid	Cl	Cl	OEt
amino acid	amino acid	Cl	Cl	O-cyclopropyl
amino acid	amino acid	Cl	Cl	O-acetyl
amino acid	amino acid	Cl	Cl	SH
amino acid	amino acid	Cl	Cl	SMe
amino acid	amino acid	Cl	Cl	SEt
amino acid	amino acid	Cl	Cl	S-cyclopropyl
amino acid	amino acid	Cl	Cl	F

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	Cl	Cl	Cl
amino acid	amino acid	Cl	Cl	Br
amino acid	amino acid	Cl	Cl	I
amino acid	H	Cl	Cl	H
amino acid	H	Cl	Cl	NH_2
amino acid	H	Cl	Cl	NH-cyclopropyl
amino acid	H	Cl	Cl	NH-methyl
amino acid	H	Cl	Cl	NH-ethyl
amino acid	H	Cl	Cl	NH-acetyl
amino acid	H	Cl	Cl	OH
amino acid	H	Cl	Cl	OMe
amino acid	H	Cl	Cl	OEt
amino acid	H	Cl	Cl	O-cyclopropyl
amino acid	H	Cl	Cl	O-acetyl
amino acid	H	Cl	Cl	SH
amino acid	H	Cl	Cl	SMe
amino acid	H	Cl	Cl	SEt
amino acid	H	Cl	Cl	S-cyclopropyl
amino acid	H	Cl	Cl	F
amino acid	H	Cl	Cl	Cl
amino acid	H	Cl	Cl	Br
amino acid	H	Cl	Cl	I
amino acid	acyl	Cl	Cl	H
amino acid	acyl	Cl	Cl	NH_2
amino acid	acyl	Cl	Cl	NH-cyclopropyl
amino acid	acyl	Cl	Cl	NH-methyl
amino acid	acyl	Cl	Cl	NH-ethyl
amino acid	acyl	Cl	Cl	NH-acetyl
amino acid	acyl	Cl	Cl	OH
amino acid	acyl	Cl	Cl	OMe
amino acid	acyl	Cl	Cl	OEt
amino acid	acyl	Cl	Cl	O-cyclopropyl
amino acid	acyl	Cl	Cl	O-acetyl
amino acid	acyl	Cl	Cl	SH
amino acid	acyl	Cl	Cl	SMe
amino acid	acyl	Cl	Cl	SEt
amino acid	acyl	Cl	Cl	S-cyclopropyl
amino acid	acyl	Cl	Cl	F
amino acid	acyl	Cl	Cl	Cl
amino acid	acyl	Cl	Cl	Br
amino acid	acyl	Cl	Cl	I
acyl	H	OH	OH	H
acyl	H	OH	OH	NH_2
acyl	H	OH	OH	NH-cyclopropyl
acyl	H	OH	OH	NH-methyl
acyl	H	OH	OH	NH-ethyl
acyl	H	OH	OH	NH-acetyl

R^2	R^3	X^1	X^2	Y
acyl	H	OH	OH	OH
acyl	H	OH	OH	OMe
acyl	H	OH	OH	OEt
acyl	H	OH	OH	O-cyclopropyl
acyl	H	OH	OH	O-acetyl
acyl	H	OH	OH	SH
acyl	H	OH	OH	SMe
acyl	H	OH	OH	SEt
acyl	H	OH	OH	S-cyclopropyl
acyl	H	OH	OH	F
acyl	H	OH	OH	Cl
acyl	H	OH	OH	Br
acyl	H	OH	OH	I
acyl	acyl	OH	OH	H
acyl	acyl	OH	OH	NH_2
acyl	acyl	OH	OH	NH-cyclopropyl
acyl	acyl	OH	OH	NH-methyl
acyl	acyl	OH	OH	NH-ethyl
acyl	acyl	OH	OH	NH-acetyl
acyl	acyl	OH	OH	OH
acyl	acyl	OH	OH	OMe
acyl	acyl	OH	OH	OEt
acyl	acyl	OH	OH	O-cyclopropyl
acyl	acyl	OH	OH	O-acetyl
acyl	acyl	OH	OH	SH
acyl	acyl	OH	OH	SMe
acyl	acyl	OH	OH	SEt
acyl	acyl	OH	OH	S-cyclopropyl
acyl	acyl	OH	OH	F
acyl	acyl	OH	OH	Cl
acyl	acyl	OH	OH	Br
acyl	acyl	OH	OH	I
acyl	amino acid	OH	OH	H
acyl	amino acid	OH	OH	NH_2
acyl	amino acid	OH	OH	NH-cyclopropyl
acyl	amino acid	OH	OH	NH-methyl
acyl	amino acid	OH	OH	NH-ethyl
acyl	amino acid	OH	OH	NH-acetyl
acyl	amino acid	OH	OH	OH
acyl	amino acid	OH	OH	OMe
acyl	amino acid	OH	OH	OEt
acyl	amino acid	OH	OH	O-cyclopropyl
acyl	amino acid	OH	OH	O-acetyl
acyl	amino acid	OH	OH	SH
acyl	amino acid	OH	OH	SMe
acyl	amino acid	OH	OH	SEt
acyl	amino acid	OH	OH	S-cyclopropyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	OH	OH	F
acyl	amino acid	OH	OH	Cl
acyl	amino acid	OH	OH	Br
acyl	amino acid	OH	OH	I
H	acyl	OH	OH	H
H	acyl	OH	OH	NH_2
H	acyl	OH	OH	NH-cyclopropyl
H	acyl	OH	OH	NH-methyl
H	acyl	OH	OH	NH-ethyl
H	acyl	OH	OH	NH-acetyl
H	acyl	OH	OH	OH
H	acyl	OH	OH	OMe
H	acyl	OH	OH	OEt
H	acyl	OH	OH	O-cyclopropyl
H	acyl	OH	OH	O-acetyl
H	acyl	OH	OH	SH
H	acyl	OH	OH	SMe
H	acyl	OH	OH	SEt
H	acyl	OH	OH	S-cyclopropyl
H	acyl	OH	OH	F
H	acyl	OH	OH	Cl
H	acyl	OH	OH	Br
H	acyl	OH	OH	I
H	amino acid	OH	OH	H
H	amino acid	OH	OH	NH_2
H	amino acid	OH	OH	NH-cyclopropyl
H	amino acid	OH	OH	NH-methyl
H	amino acid	OH	OH	NH-ethyl
H	amino acid	OH	OH	NH-acetyl
H	amino acid	OH	OH	OH
H	amino acid	OH	OH	OMe
H	amino acid	OH	OH	OEt
H	amino acid	OH	OH	O-cyclopropyl
H	amino acid	OH	OH	O-acetyl
H	amino acid	OH	OH	SH
H	amino acid	OH	OH	SMe
H	amino acid	OH	OH	SEt
H	amino acid	OH	OH	S-cyclopropyl
H	amino acid	OH	OH	F
H	amino acid	OH	OH	Cl
H	amino acid	OH	OH	Br
H	amino acid	OH	OH	I
amino acid	amino acid	OH	OH	H
amino acid	amino acid	OH	OH	NH_2
amino acid	amino acid	OH	OH	NH-cyclopropyl
amino acid	amino acid	OH	OH	NH-methyl
amino acid	amino acid	OH	OH	NH-ethyl

R^2	R^3	X^1	X^2	Y
amino acid	amino acid	OH	OH	NH-acetyl
amino acid	amino acid	OH	OH	OH
amino acid	amino acid	OH	OH	OMe
amino acid	amino acid	OH	OH	OEt
amino acid	amino acid	OH	OH	O-cyclopropyl
amino acid	amino acid	OH	OH	O-acetyl
amino acid	amino acid	OH	OH	SH
amino acid	amino acid	OH	OH	SMe
amino acid	amino acid	OH	OH	SEt
amino acid	amino acid	OH	OH	S-cyclopropyl
amino acid	amino acid	OH	OH	F
amino acid	amino acid	OH	OH	Cl
amino acid	amino acid	OH	OH	Br
amino acid	amino acid	OH	OH	I
amino acid	H	OH	OH	H
amino acid	H	OH	OH	NH_2
amino acid	H	OH	OH	NH-cyclopropyl
amino acid	H	OH	OH	NH-methyl
amino acid	H	OH	OH	NH-ethyl
amino acid	H	OH	OH	NH-acetyl
amino acid	H	OH	OH	OH
amino acid	H	OH	OH	OMe
amino acid	H	OH	OH	OEt
amino acid	H	OH	OH	O-cyclopropyl
amino acid	H	OH	OH	O-acetyl
amino acid	H	OH	OH	SH
amino acid	H	OH	OH	SMe
amino acid	H	OH	OH	SEt
amino acid	H	OH	OH	S-cyclopropyl
amino acid	H	OH	OH	F
amino acid	H	OH	OH	Cl
amino acid	H	OH	OH	Br
amino acid	H	OH	OH	I
amino acid	acyl	OH	OH	H
amino acid	acyl	OH	OH	NH_2
amino acid	acyl	OH	OH	NH-cyclopropyl
amino acid	acyl	OH	OH	NH-methyl
amino acid	acyl	OH	OH	NH-ethyl
amino acid	acyl	OH	OH	NH-acetyl
amino acid	acyl	OH	OH	OH
amino acid	acyl	OH	OH	OMe
amino acid	acyl	OH	OH	OEt
amino acid	acyl	OH	OH	O-cyclopropyl
amino acid	acyl	OH	OH	O-acetyl
amino acid	acyl	OH	OH	SH
amino acid	acyl	OH	OH	SMe
amino acid	acyl	OH	OH	SEt

R^2	R^3	X^1	X^2	Y
amino acid	acyl	OH	OH	S-cyclopropyl
amino acid	acyl	OH	OH	F
amino acid	acyl	OH	OH	Cl
amino acid	acyl	OH	OH	Br
amino acid	acyl	OH	OH	I
acyl	H	SH	SH	H
acyl	H	SH	SH	NH_2
acyl	H	SH	SH	NH-cyclopropyl
acyl	H	SH	SH	NH-methyl
acyl	H	SH	SH	NH-ethyl
acyl	H	SH	SH	NH-acetyl
acyl	H	SH	SH	OH
acyl	H	SH	SH	OMe
acyl	H	SH	SH	OEt
acyl	H	SH	SH	O-cyclopropyl
acyl	H	SH	SH	O-acetyl
acyl	H	SH	SH	SH
acyl	H	SH	SH	SMe
acyl	H	SH	SH	SEt
acyl	H	SH	SH	S-cyclopropyl
acyl	H	SH	SH	F
acyl	H	SH	SH	Cl
acyl	H	SH	SH	Br
acyl	H	SH	SH	I
acyl	acyl	SH	SH	H
acyl	acyl	SH	SH	NH_2
acyl	acyl	SH	SH	NH-cyclopropyl
acyl	acyl	SH	SH	NH-methyl
acyl	acyl	SH	SH	NH-ethyl
acyl	acyl	SH	SH	NH-acetyl
acyl	acyl	SH	SH	OH
acyl	acyl	SH	SH	OMe
acyl	acyl	SH	SH	OEt
acyl	acyl	SH	SH	O-cyclopropyl
acyl	acyl	SH	SH	O-acetyl
acyl	acyl	SH	SH	SH
acyl	acyl	SH	SH	SMe
acyl	acyl	SH	SH	SEt
acyl	acyl	SH	SH	S-cyclopropyl
acyl	acyl	SH	SH	F
acyl	acyl	SH	SH	Cl
acyl	acyl	SH	SH	Br
acyl	acyl	SH	SH	I
acyl	amino acid	SH	SH	H
acyl	amino acid	SH	SH	NH_2
acyl	amino acid	SH	SH	NH-cyclopropyl
acyl	amino acid	SH	SH	NH-methyl

R^2	R^3	X^1	X^2	Y
acyl	amino acid	SH	SH	NH-ethyl
acyl	amino acid	SH	SH	NH-acetyl
acyl	amino acid	SH	SH	OH
acyl	amino acid	SH	SH	OMe
acyl	amino acid	SH	SH	OEt
acyl	amino acid	SH	SH	O-cyclopropyl
acyl	amino acid	SH	SH	O-acetyl
acyl	amino acid	SH	SH	SH
acyl	amino acid	SH	SH	SMe
acyl	amino acid	SH	SH	SEt
acyl	amino acid	SH	SH	S-cyclopropyl
acyl	amino acid	SH	SH	F
acyl	amino acid	SH	SH	Cl
acyl	amino acid	SH	SH	Br
acyl	amino acid	SH	SH	I
H	acyl	SH	SH	H
H	acyl	SH	SH	NH_2
H	acyl	SH	SH	NH-cyclopropyl
H	acyl	SH	SH	NH-methyl
H	acyl	SH	SH	NH-ethyl
H	acyl	SH	SH	NH-acetyl
H	acyl	SH	SH	OH
H	acyl	SH	SH	OMe
H	acyl	SH	SH	OEt
H	acyl	SH	SH	O-cyclopropyl
H	acyl	SH	SH	O-acetyl
H	acyl	SH	SH	SH
H	acyl	SH	SH	SMe
H	acyl	SH	SH	SEt
H	acyl	SH	SH	S-cyclopropyl
H	acyl	SH	SH	F
H	acyl	SH	SH	Cl
H	acyl	SH	SH	Br
H	acyl	SH	SH	I
H	amino acid	SH	SH	H
H	amino acid	SH	SH	NH_2
H	amino acid	SH	SH	NH-cyclopropyl
H	amino acid	SH	SH	NH-methyl
H	amino acid	SH	SH	NH-ethyl
H	amino acid	SH	SH	NH-acetyl
H	amino acid	SH	SH	OH
H	amino acid	SH	SH	OMe
H	amino acid	SH	SH	OEt
H	amino acid	SH	SH	O-cyclopropyl
H	amino acid	SH	SH	O-acetyl
H	amino acid	SH	SH	SH
H	amino acid	SH	SH	SMe

R^2	R^3	X^1	X^2	Y
H	amino acid	SH	SH	SEt
H	amino acid	SH	SH	S-cyclopropyl
H	amino acid	SH	SH	F
H	amino acid	SH	SH	Cl
H	amino acid	SH	SH	Br
H	amino acid	SH	SH	I
amino acid	amino acid	SH	SH	H
amino acid	amino acid	SH	SH	NH_2
amino acid	amino acid	SH	SH	NH-cyclopropyl
amino acid	amino acid	SH	SH	NH-methyl
amino acid	amino acid	SH	SH	NH-ethyl
amino acid	amino acid	SH	SH	NH-acetyl
amino acid	amino acid	SH	SH	OH
amino acid	amino acid	SH	SH	OMe
amino acid	amino acid	SH	SH	OEt
amino acid	amino acid	SH	SH	O-cyclopropyl
amino acid	amino acid	SH	SH	O-acetyl
amino acid	amino acid	SH	SH	SH
amino acid	amino acid	SH	SH	SMe
amino acid	amino acid	SH	SH	SEt
amino acid	amino acid	SH	SH	S-cyclopropyl
amino acid	amino acid	SH	SH	F
amino acid	amino acid	SH	SH	Cl
amino acid	amino acid	SH	SH	Br
amino acid	amino acid	SH	SH	I
amino acid	H	SH	SH	H
amino acid	H	SH	SH	NH_2
amino acid	H	SH	SH	NH-cyclopropyl
amino acid	H	SH	SH	NH-methyl
amino acid	H	SH	SH	NH-ethyl
amino acid	H	SH	SH	NH-acetyl
amino acid	H	SH	SH	OH
amino acid	H	SH	SH	OMe
amino acid	H	SH	SH	OEt
amino acid	H	SH	SH	O-cyclopropyl
amino acid	H	SH	SH	O-acetyl
amino acid	H	SH	SH	SH
amino acid	H	SH	SH	SMe
amino acid	H	SH	SH	SEt
amino acid	H	SH	SH	S-cyclopropyl
amino acid	H	SH	SH	F
amino acid	H	SH	SH	Cl
amino acid	H	SH	SH	Br
amino acid	H	SH	SH	I
amino acid	acyl	SH	SH	H
amino acid	acyl	SH	SH	NH_2
amino acid	acyl	SH	SH	NH-cyclopropyl

R^2	R^3	X^1	X^2	Y
amino acid	acyl	SH	SH	NH-methyl
amino acid	acyl	SH	SH	NH-ethyl
amino acid	acyl	SH	SH	NH-acetyl
amino acid	acyl	SH	SH	OH
amino acid	acyl	SH	SH	OMe
amino acid	acyl	SH	SH	OEt
amino acid	acyl	SH	SH	O-cyclopropyl
amino acid	acyl	SH	SH	O-acetyl
amino acid	acyl	SH	SH	SH
amino acid	acyl	SH	SH	SMe
amino acid	acyl	SH	SH	SEt
amino acid	acyl	SH	SH	S-cyclopropyl
amino acid	acyl	SH	SH	F
amino acid	acyl	SH	SH	Cl
amino acid	acyl	SH	SH	Br
amino acid	acyl	SH	SH	I

Table 21

R^2	R^3	R^6	X	Base
acyl	H	CH_3	O	Thymine
acyl	H	CH_3	O	Uracil
acyl	H	CH_3	O	Guanine
acyl	H	CH_3	O	Cytosine
acyl	H	CH_3	O	Adenine
acyl	H	CH_3	O	Hypoxanthine
acyl	H	CH_3	O	5-Fluorouracil
acyl	H	CH_3	O	8-Fluoroguanine
acyl	H	CH_3	O	5-Fluorocytosine
acyl	H	CH_3	O	8-Fluoroadenine
acyl	H	CH_3	O	2-Fluoroadenine
acyl	H	CH_3	O	2,8-Difluoroadenine
acyl	H	CH_3	O	2-Fluorohypoxanthine
acyl	H	CH_3	O	8-Fluorohypoxanthine
acyl	H	CH_3	O	2,8-Difluorohypoxanthine
acyl	H	CH_3	O	2-Aminoadenine
acyl	H	CH_3	O	2-Amino-8-fluoroadenine
acyl	H	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-Aminohypoxanthine
acyl	H	CH_3	O	2-N-acetylguanine
acyl	H	CH_3	O	4-N-acetylcytosine
acyl	H	CH_3	O	6-N-acetyladenine
acyl	H	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylaminoadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	O	Thymine
acyl	acyl	CH_3	O	Uracil
acyl	acyl	CH_3	O	Guanine
acyl	acyl	CH_3	O	Cytosine
acyl	acyl	CH_3	O	Adenine
acyl	acyl	CH_3	O	Hypoxanthine
acyl	acyl	CH_3	O	5-Fluorouracil
acyl	acyl	CH_3	O	8-Fluoroguanine
acyl	acyl	CH_3	O	5-Fluorocytosine
acyl	acyl	CH_3	O	8-Fluoroadenine
acyl	acyl	CH_3	O	2-Fluoroadenine
acyl	acyl	CH_3	O	2,8-Difluoroadenine
acyl	acyl	CH_3	O	2-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CH_3	O	8-Fluorohypoxanthine
acyl	acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminoadenine
acyl	acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-Aminohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylguanine
acyl	acyl	CH_3	O	4-N-acetylcytosine
acyl	acyl	CH_3	O	6-N-acetyladenine
acyl	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylaminoadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	O	Thymine
acyl	amino acid	CH_3	O	Uracil
acyl	amino acid	CH_3	O	Guanine
acyl	amino acid	CH_3	O	Cytosine
acyl	amino acid	CH_3	O	Adenine
acyl	amino acid	CH_3	O	Hypoxanthine
acyl	amino acid	CH_3	O	5-Fluorouracil
acyl	amino acid	CH_3	O	8-Fluoroguanine
acyl	amino acid	CH_3	O	5-Fluorocytosine
acyl	amino acid	CH_3	O	8-Fluoroadenine
acyl	amino acid	CH_3	O	2-Fluoroadenine
acyl	amino acid	CH_3	O	2,8-Difluoroadenine
acyl	amino acid	CH_3	O	2-Fluorohypoxanthine
acyl	amino acid	CH_3	O	8-Fluorohypoxanthine
acyl	amino acid	CH_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminoadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-Aminohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylguanine
acyl	amino acid	CH_3	O	4-N-acetylcytosine
acyl	amino acid	CH_3	O	6-N-acetyladenine
acyl	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	O	2-N-acetylaminoadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
H	acyl	CH_3	O	Thymine
H	acyl	CH_3	O	Uracil
H	acyl	CH_3	O	Guanine
H	acyl	CH_3	O	Cytosine
H	acyl	CH_3	O	Adenine
H	acyl	CH_3	O	Hypoxanthine
H	acyl	CH_3	O	5-Fluorouracil
H	acyl	CH_3	O	8-Fluoroguanine
H	acyl	CH_3	O	5-Fluorocytosine
H	acyl	CH_3	O	8-Fluoroadenine
H	acyl	CH_3	O	2-Fluoroadenine
H	acyl	CH_3	O	2,8-Difluoroadenine
H	acyl	CH_3	O	2-Fluorohypoxanthine
H	acyl	CH_3	O	8-Fluorohypoxanthine
H	acyl	CH_3	O	2,8-Difluorohypoxanthine
H	acyl	CH_3	O	2-Aminoadenine
H	acyl	CH_3	O	2-Amino-8-fluoroadenine
H	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-Aminohypoxanthine
H	acyl	CH_3	O	2-N-acetylguanine
H	acyl	CH_3	O	4-N-acetylcytosine
H	acyl	CH_3	O	6-N-acetyladenine
H	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylaminoadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	O	Thymine
H	amino acid	CH_3	O	Uracil
H	amino acid	CH_3	O	Guanine
H	amino acid	CH_3	O	Cytosine
H	amino acid	CH_3	O	Adenine
H	amino acid	CH_3	O	Hypoxanthine
H	amino acid	CH_3	O	5-Fluorouracil
H	amino acid	CH_3	O	8-Fluoroguanine
H	amino acid	CH_3	O	5-Fluorocytosine
H	amino acid	CH_3	O	8-Fluoroadenine
H	amino acid	CH_3	O	2-Fluoroadenine

R^2	R^3	R^6	X	Base
H	amino acid	CH_3	O	2,8-Difluoroadenine
H	amino acid	CH_3	O	2-Fluorohypoxanthine
H	amino acid	CH_3	O	8-Fluorohypoxanthine
H	amino acid	CH_3	O	2,8-Difluorohypoxanthine
H	amino acid	CH_3	O	2-Aminoadenine
H	amino acid	CH_3	O	2-Amino-8-fluoroadenine
H	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-Aminohypoxanthine
H	amino acid	CH_3	O	2-N-acetylguanine
H	amino acid	CH_3	O	4-N-acetylcytosine
H	amino acid	CH_3	O	6-N-acetyladenine
H	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylaminoadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	O	Thymine
amino acid	amino acid	CH_3	O	Uracil
amino acid	amino acid	CH_3	O	Guanine
amino acid	amino acid	CH_3	O	Cytosine
amino acid	amino acid	CH_3	O	Adenine
amino acid	amino acid	CH_3	O	Hypoxanthine
amino acid	amino acid	CH_3	O	5-Fluorouracil
amino acid	amino acid	CH_3	O	8-Fluoroguanine
amino acid	amino acid	CH_3	O	5-Fluorocytosine
amino acid	amino acid	CH_3	O	8-Fluoroadenine
amino acid	amino acid	CH_3	O	2-Fluoroadenine
amino acid	amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminoadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylguanine
amino acid	amino acid	CH_3	O	4-N-acetylcytosine
amino acid	amino acid	CH_3	O	6-N-acetyladenine
amino acid	amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	O	Thymine
amino acid	H	CH_3	O	Uracil
amino acid	H	CH_3	O	Guanine
amino acid	H	CH_3	O	Cytosine
amino acid	H	CH_3	O	Adenine
amino acid	H	CH_3	O	Hypoxanthine
amino acid	H	CH_3	O	5-Fluorouracil
amino acid	H	CH_3	O	8-Fluoroguanine
amino acid	H	CH_3	O	5-Fluorocytosine
amino acid	H	CH_3	O	8-Fluoroadenine
amino acid	H	CH_3	O	2-Fluoroadenine
amino acid	H	CH_3	O	2,8-Difluoroadenine
amino acid	H	CH_3	O	2-Fluorohypoxanthine
amino acid	H	CH_3	O	8-Fluorohypoxanthine
amino acid	H	CH_3	O	2,8-Difluorohypoxanthine
amino acid	H	CH_3	O	2-Aminoadenine
amino acid	H	CH_3	O	2-Amino-8-fluoroadenine
amino acid	H	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-Aminohypoxanthine
amino acid	H	CH_3	O	2-N-acetylguanine
amino acid	H	CH_3	O	4-N-acetylcytosine
amino acid	H	CH_3	O	6-N-acetyladenine
amino acid	H	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylaminoadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	O	Thymine
amino acid	acyl	CH_3	O	Uracil
amino acid	acyl	CH_3	O	Guanine
amino acid	acyl	CH_3	O	Cytosine
amino acid	acyl	CH_3	O	Adenine
amino acid	acyl	CH_3	O	Hypoxanthine
amino acid	acyl	CH_3	O	5-Fluorouracil
amino acid	acyl	CH_3	O	8-Fluoroguanine
amino acid	acyl	CH_3	O	5-Fluorocytosine

R^2	R^3	R^6	X	Base
amino acid	acyl	CH_3	O	8-Fluoroadenine
amino acid	acyl	CH_3	O	2-Fluoroadenine
amino acid	acyl	CH_3	O	2,8-Difluoroadenine
amino acid	acyl	CH_3	O	2-Fluorohypoxanthine
amino acid	acyl	CH_3	O	8-Fluorohypoxanthine
amino acid	acyl	CH_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminoadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-Aminohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylguanine
amino acid	acyl	CH_3	O	4-N-acetylcytosine
amino acid	acyl	CH_3	O	6-N-acetyladenine
amino acid	acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylaminoadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	H	CH_3	S	Thymine
acyl	H	CH_3	S	Uracil
acyl	H	CH_3	S	Guanine
acyl	H	CH_3	S	Cytosine
acyl	H	CH_3	S	Adenine
acyl	H	CH_3	S	Hypoxanthine
acyl	H	CH_3	S	5-Fluorouracil
acyl	H	CH_3	S	8-Fluoroguanine
acyl	H	CH_3	S	5-Fluorocytosine
acyl	H	CH_3	S	8-Fluoroadenine
acyl	H	CH_3	S	2-Fluoroadenine
acyl	H	CH_3	S	2,8-Difluoroadenine
acyl	H	CH_3	S	2-Fluorohypoxanthine
acyl	H	CH_3	S	8-Fluorohypoxanthine
acyl	H	CH_3	S	2,8-Difluorohypoxanthine
acyl	H	CH_3	S	2-Aminoadenine
acyl	H	CH_3	S	2-Amino-8-fluoroadenine
acyl	H	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-Aminohypoxanthine
acyl	H	CH_3	S	2-N-acetylguanine
acyl	H	CH_3	S	4-N-acetylcytosine
acyl	H	CH_3	S	6-N-acetyladenine
acyl	H	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CH_3	S	4-N-acetyl-5-fluorocytosine

R^2	R^3	R^6	X	Base
acyl	H	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylaminoadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CH_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CH_3	S	Thymine
acyl	acyl	CH_3	S	Uracil
acyl	acyl	CH_3	S	Guanine
acyl	acyl	CH_3	S	Cytosine
acyl	acyl	CH_3	S	Adenine
acyl	acyl	CH_3	S	Hypoxanthine
acyl	acyl	CH_3	S	5-Fluorouracil
acyl	acyl	CH_3	S	8-Fluoroguanine
acyl	acyl	CH_3	S	5-Fluorocytosine
acyl	acyl	CH_3	S	8-Fluoroadenine
acyl	acyl	CH_3	S	2-Fluoroadenine
acyl	acyl	CH_3	S	2,8-Difluoroadenine
acyl	acyl	CH_3	S	2-Fluorohypoxanthine
acyl	acyl	CH_3	S	8-Fluorohypoxanthine
acyl	acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminoadenine
acyl	acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-Aminohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylguanine
acyl	acyl	CH_3	S	4-N-acetylcytosine
acyl	acyl	CH_3	S	6-N-acetyladenine
acyl	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylaminoadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CH_3	S	Thymine
acyl	amino acid	CH_3	S	Uracil
acyl	amino acid	CH_3	S	Guanine
acyl	amino acid	CH_3	S	Cytosine
acyl	amino acid	CH_3	S	Adenine
acyl	amino acid	CH_3	S	Hypoxanthine
acyl	amino acid	CH_3	S	5-Fluorouracil

R^2	R^3	R^6	X	Base
acyl	amino acid	CH_3	S	8-Fluoroguanine
acyl	amino acid	CH_3	S	5-Fluorocytosine
acyl	amino acid	CH_3	S	8-Fluoroadenine
acyl	amino acid	CH_3	S	2-Fluoroadenine
acyl	amino acid	CH_3	S	2,8-Difluoroadenine
acyl	amino acid	CH_3	S	2-Fluorohypoxanthine
acyl	amino acid	CH_3	S	8-Fluorohypoxanthine
acyl	amino acid	CH_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminoadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-Aminohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylguanine
acyl	amino acid	CH_3	S	4-N-acetylcytosine
acyl	amino acid	CH_3	S	6-N-acetyladenine
acyl	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylaminoadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
H	acyl	CH_3	S	Thymine
H	acyl	CH_3	S	Uracil
H	acyl	CH_3	S	Guanine
H	acyl	CH_3	S	Cytosine
H	acyl	CH_3	S	Adenine
H	acyl	CH_3	S	Hypoxanthine
H	acyl	CH_3	S	5-Fluorouracil
H	acyl	CH_3	S	8-Fluoroguanine
H	acyl	CH_3	S	5-Fluorocytosine
H	acyl	CH_3	S	8-Fluoroadenine
H	acyl	CH_3	S	2-Fluoroadenine
H	acyl	CH_3	S	2,8-Difluoroadenine
H	acyl	CH_3	S	2-Fluorohypoxanthine
H	acyl	CH_3	S	8-Fluorohypoxanthine
H	acyl	CH_3	S	2,8-Difluorohypoxanthine
H	acyl	CH_3	S	2-Aminoadenine
H	acyl	CH_3	S	2-Amino-8-fluoroadenine
H	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-Aminohypoxanthine
H	acyl	CH_3	S	2-N-acetylguanine
H	acyl	CH_3	S	4-N-acetylcytosine
H	acyl	CH_3	S	6-N-acetyladenine

R^2	R^3	R^6	X	Base
H	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylaminoadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CH_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CH_3	S	Thymine
H	amino acid	CH_3	S	Uracil
H	amino acid	CH_3	S	Guanine
H	amino acid	CH_3	S	Cytosine
H	amino acid	CH_3	S	Adenine
H	amino acid	CH_3	S	Hypoxanthine
H	amino acid	CH_3	S	5-Fluorouracil
H	amino acid	CH_3	S	8-Fluoroguanine
H	amino acid	CH_3	S	5-Fluorocytosine
H	amino acid	CH_3	S	8-Fluoroadenine
H	amino acid	CH_3	S	2-Fluoroadenine
H	amino acid	CH_3	S	2,8-Difluoroadenine
H	amino acid	CH_3	S	2-Fluorohypoxanthine
H	amino acid	CH_3	S	8-Fluorohypoxanthine
H	amino acid	CH_3	S	2,8-Difluorohypoxanthine
H	amino acid	CH_3	S	2-Aminoadenine
H	amino acid	CH_3	S	2-Amino-8-fluoroadenine
H	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-Aminohypoxanthine
H	amino acid	CH_3	S	2-N-acetylguanine
H	amino acid	CH_3	S	4-N-acetylcytosine
H	amino acid	CH_3	S	6-N-acetyladenine
H	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylaminoadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CH_3	S	Thymine
amino acid	amino acid	CH_3	S	Uracil
amino acid	amino acid	CH_3	S	Guanine
amino acid	amino acid	CH_3	S	Cytosine
amino acid	amino acid	CH_3	S	Adenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CH_3	S	Hypoxanthine
amino acid	amino acid	CH_3	S	5-Fluorouracil
amino acid	amino acid	CH_3	S	8-Fluoroguanine
amino acid	amino acid	CH_3	S	5-Fluorocytosine
amino acid	amino acid	CH_3	S	8-Fluoroadenine
amino acid	amino acid	CH_3	S	2-Fluoroadenine
amino acid	amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminoadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylguanine
amino acid	amino acid	CH_3	S	4-N-acetylcytosine
amino acid	amino acid	CH_3	S	6-N-acetyladenine
amino acid	amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CH_3	S	Thymine
amino acid	H	CH_3	S	Uracil
amino acid	H	CH_3	S	Guanine
amino acid	H	CH_3	S	Cytosine
amino acid	H	CH_3	S	Adenine
amino acid	H	CH_3	S	Hypoxanthine
amino acid	H	CH_3	S	5-Fluorouracil
amino acid	H	CH_3	S	8-Fluoroguanine
amino acid	H	CH_3	S	5-Fluorocytosine
amino acid	H	CH_3	S	8-Fluoroadenine
amino acid	H	CH_3	S	2-Fluoroadenine
amino acid	H	CH_3	S	2,8-Difluoroadenine
amino acid	H	CH_3	S	2-Fluorohypoxanthine
amino acid	H	CH_3	S	8-Fluorohypoxanthine
amino acid	H	CH_3	S	2,8-Difluorohypoxanthine
amino acid	H	CH_3	S	2-Aminoadenine
amino acid	H	CH_3	S	2-Amino-8-fluoroadenine
amino acid	H	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-Aminohypoxanthine
amino acid	H	CH_3	S	2-N-acetylguanine

R^2	R^3	R^6	X	Base
amino acid	H	CH_3	S	4-N-acetylcytosine
amino acid	H	CH_3	S	6-N-acetyladenine
amino acid	H	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylaminoadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CH_3	S	Thymine
amino acid	acyl	CH_3	S	Uracil
amino acid	acyl	CH_3	S	Guanine
amino acid	acyl	CH_3	S	Cytosine
amino acid	acyl	CH_3	S	Adenine
amino acid	acyl	CH_3	S	Hypoxanthine
amino acid	acyl	CH_3	S	5-Fluorouracil
amino acid	acyl	CH_3	S	8-Fluoroguanine
amino acid	acyl	CH_3	S	5-Fluorocytosine
amino acid	acyl	CH_3	S	8-Fluoroadenine
amino acid	acyl	CH_3	S	2-Fluoroadenine
amino acid	acyl	CH_3	S	2,8-Difluoroadenine
amino acid	acyl	CH_3	S	2-Fluorohypoxanthine
amino acid	acyl	CH_3	S	8-Fluorohypoxanthine
amino acid	acyl	CH_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminoadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-Aminohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylguanine
amino acid	acyl	CH_3	S	4-N-acetylcytosine
amino acid	acyl	CH_3	S	6-N-acetyladenine
amino acid	acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylaminoadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	S	Thymine
acyl	H	CF_3	S	Uracil
acyl	H	CF_3	S	Guanine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	S	Cytosine
acyl	H	CF_3	S	Adenine
acyl	H	CF_3	S	Hypoxanthine
acyl	H	CF_3	S	5-Fluorouracil
acyl	H	CF_3	S	8-Fluoroguanine
acyl	H	CF_3	S	5-Fluorocytosine
acyl	H	CF_3	S	8-Fluoroadenine
acyl	H	CF_3	S	2-Fluoroadenine
acyl	H	CF_3	S	2,8-Difluoroadenine
acyl	H	CF_3	S	2-Fluorohypoxanthine
acyl	H	CF_3	S	8-Fluorohypoxanthine
acyl	H	CF_3	S	2,8-Difluorohypoxanthine
acyl	H	CF_3	S	2-Aminoadenine
acyl	H	CF_3	S	2-Amino-8-fluoroadenine
acyl	H	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-Aminohypoxanthine
acyl	H	CF_3	S	2-N-acetylguanine
acyl	H	CF_3	S	4-N-acetylcytosine
acyl	H	CF_3	S	6-N-acetyladenine
acyl	H	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylaminoadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	S	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	S	Thymine
acyl	acyl	CF_3	S	Uracil
acyl	acyl	CF_3	S	Guanine
acyl	acyl	CF_3	S	Cytosine
acyl	acyl	CF_3	S	Adenine
acyl	acyl	CF_3	S	Hypoxanthine
acyl	acyl	CF_3	S	5-Fluorouracil
acyl	acyl	CF_3	S	8-Fluoroguanine
acyl	acyl	CF_3	S	5-Fluorocytosine
acyl	acyl	CF_3	S	8-Fluoroadenine
acyl	acyl	CF_3	S	2-Fluoroadenine
acyl	acyl	CF_3	S	2,8-Difluoroadenine
acyl	acyl	CF_3	S	2-Fluorohypoxanthine
acyl	acyl	CF_3	S	8-Fluorohypoxanthine
acyl	acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	S	2-Aminoadenine
acyl	acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
acyl	acyl	CF_3	S	2-Aminohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylguanine
acyl	acyl	CF_3	S	4-N-acetylcytosine
acyl	acyl	CF_3	S	6-N-acetyladenine
acyl	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylaminoadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	S	Thymine
acyl	amino acid	CF_3	S	Uracil
acyl	amino acid	CF_3	S	Guanine
acyl	amino acid	CF_3	S	Cytosine
acyl	amino acid	CF_3	S	Adenine
acyl	amino acid	CF_3	S	Hypoxanthine
acyl	amino acid	CF_3	S	5-Fluorouracil
acyl	amino acid	CF_3	S	8-Fluoroguanine
acyl	amino acid	CF_3	S	5-Fluorocytosine
acyl	amino acid	CF_3	S	8-Fluoroadenine
acyl	amino acid	CF_3	S	2-Fluoroadenine
acyl	amino acid	CF_3	S	2,8-Difluoroadenine
acyl	amino acid	CF_3	S	2-Fluorohypoxanthine
acyl	amino acid	CF_3	S	8-Fluorohypoxanthine
acyl	amino acid	CF_3	S	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminoadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-Aminohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylguanine
acyl	amino acid	CF_3	S	4-N-acetylcytosine
acyl	amino acid	CF_3	S	6-N-acetyladenine
acyl	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylaminoadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
H	acyl	CF_3	S	Thymine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	S	Uracil
H	acyl	CF_3	S	Guanine
H	acyl	CF_3	S	Cytosine
H	acyl	CF_3	S	Adenine
H	acyl	CF_3	S	Hypoxanthine
H	acyl	CF_3	S	5-Fluorouracil
H	acyl	CF_3	S	8-Fluoroguanine
H	acyl	CF_3	S	5-Fluorocytosine
H	acyl	CF_3	S	8-Fluoroadenine
H	acyl	CF_3	S	2-Fluoroadenine
H	acyl	CF_3	S	2,8-Difluoroadenine
H	acyl	CF_3	S	2-Fluorohypoxanthine
H	acyl	CF_3	S	8-Fluorohypoxanthine
H	acyl	CF_3	S	2,8-Difluorohypoxanthine
H	acyl	CF_3	S	2-Aminoadenine
H	acyl	CF_3	S	2-Amino-8-fluoroadenine
H	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-Aminohypoxanthine
H	acyl	CF_3	S	2-N-acetylguanine
H	acyl	CF_3	S	4-N-acetylcytosine
H	acyl	CF_3	S	6-N-acetyladenine
H	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
H	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylaminoadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	S	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	S	Thymine
H	amino acid	CF_3	S	Uracil
H	amino acid	CF_3	S	Guanine
H	amino acid	CF_3	S	Cytosine
H	amino acid	CF_3	S	Adenine
H	amino acid	CF_3	S	Hypoxanthine
H	amino acid	CF_3	S	5-Fluorouracil
H	amino acid	CF_3	S	8-Fluoroguanine
H	amino acid	CF_3	S	5-Fluorocytosine
H	amino acid	CF_3	S	8-Fluoroadenine
H	amino acid	CF_3	S	2-Fluoroadenine
H	amino acid	CF_3	S	2,8-Difluoroadenine
H	amino acid	CF_3	S	2-Fluorohypoxanthine
H	amino acid	CF_3	S	8-Fluorohypoxanthine
H	amino acid	CF_3	S	2,8-Difluorohypoxanthine
H	amino acid	CF_3	S	2-Aminoadenine

R^2	R^3	R^6	X	Base
H	amino acid	CF_3	S	2-Amino-8-fluoroadenine
H	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-Aminohypoxanthine
H	amino acid	CF_3	S	2-N-acetylguanine
H	amino acid	CF_3	S	4-N-acetylcytosine
H	amino acid	CF_3	S	6-N-acetyladenine
H	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylaminoadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	S	Thymine
amino acid	amino acid	CF_3	S	Uracil
amino acid	amino acid	CF_3	S	Guanine
amino acid	amino acid	CF_3	S	Cytosine
amino acid	amino acid	CF_3	S	Adenine
amino acid	amino acid	CF_3	S	Hypoxanthine
amino acid	amino acid	CF_3	S	5-Fluorouracil
amino acid	amino acid	CF_3	S	8-Fluoroguanine
amino acid	amino acid	CF_3	S	5-Fluorocytosine
amino acid	amino acid	CF_3	S	8-Fluoroadenine
amino acid	amino acid	CF_3	S	2-Fluoroadenine
amino acid	amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminoadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	amino acid	CF_3	S	2-N-acetylguanine
amino acid	amino acid	CF_3	S	4-N-acetylcytosine
amino acid	amino acid	CF_3	S	6-N-acetyladenine
amino acid	amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	S	Thymine
amino acid	H	CF_3	S	Uracil
amino acid	H	CF_3	S	Guanine
amino acid	H	CF_3	S	Cytosine
amino acid	H	CF_3	S	Adenine
amino acid	H	CF_3	S	Hypoxanthine
amino acid	H	CF_3	S	5-Fluorouracil
amino acid	H	CF_3	S	8-Fluoroguanine
amino acid	H	CF_3	S	5-Fluorocytosine
amino acid	H	CF_3	S	8-Fluoroadenine
amino acid	H	CF_3	S	2-Fluoroadenine
amino acid	H	CF_3	S	2,8-Difluoroadenine
amino acid	H	CF_3	S	2-Fluorohypoxanthine
amino acid	H	CF_3	S	8-Fluorohypoxanthine
amino acid	H	CF_3	S	2,8-Difluorohypoxanthine
amino acid	H	CF_3	S	2-Aminoadenine
amino acid	H	CF_3	S	2-Amino-8-fluoroadenine
amino acid	H	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-Aminohypoxanthine
amino acid	H	CF_3	S	2-N-acetylguanine
amino acid	H	CF_3	S	4-N-acetylcytosine
amino acid	H	CF_3	S	6-N-acetyladenine
amino acid	H	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylaminoadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	S	Thymine
amino acid	acyl	CF_3	S	Uracil
amino acid	acyl	CF_3	S	Guanine
amino acid	acyl	CF_3	S	Cytosine
amino acid	acyl	CF_3	S	Adenine
amino acid	acyl	CF_3	S	Hypoxanthine
amino acid	acyl	CF_3	S	5-Fluorouracil
amino acid	acyl	CF_3	S	8-Fluoroguanine
amino acid	acyl	CF_3	S	5-Fluorocytosine
amino acid	acyl	CF_3	S	8-Fluoroadenine
amino acid	acyl	CF_3	S	2-Fluoroadenine
amino acid	acyl	CF_3	S	2,8-Difluoroadenine
amino acid	acyl	CF_3	S	2-Fluorohypoxanthine
amino acid	acyl	CF_3	S	8-Fluorohypoxanthine

R^2	R^3	R^6	X	Base
amino acid	acyl	CF_3	S	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminoadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-Aminohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylguanine
amino acid	acyl	CF_3	S	4-N-acetylcytosine
amino acid	acyl	CF_3	S	6-N-acetyladenine
amino acid	acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylaminoadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	S	2-N-acetylaminohypoxanthine
acyl	H	CF_3	O	Thymine
acyl	H	CF_3	O	Uracil
acyl	H	CF_3	O	Guanine
acyl	H	CF_3	O	Cytosine
acyl	H	CF_3	O	Adenine
acyl	H	CF_3	O	Hypoxanthine
acyl	H	CF_3	O	5-Fluorouracil
acyl	H	CF_3	O	8-Fluoroguanine
acyl	H	CF_3	O	5-Fluorocytosine
acyl	H	CF_3	O	8-Fluoroadenine
acyl	H	CF_3	O	2-Fluoroadenine
acyl	H	CF_3	O	2,8-Difluoroadenine
acyl	H	CF_3	O	2-Fluorohypoxanthine
acyl	H	CF_3	O	8-Fluorohypoxanthine
acyl	H	CF_3	O	2,8-Difluorohypoxanthine
acyl	H	CF_3	O	2-Aminoadenine
acyl	H	CF_3	O	2-Amino-8-fluoroadenine
acyl	H	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-Aminohypoxanthine
acyl	H	CF_3	O	2-N-acetylguanine
acyl	H	CF_3	O	4-N-acetylcytosine
acyl	H	CF_3	O	6-N-acetyladenine
acyl	H	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	H	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	H	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	H	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylaminoadenine

R^2	R^3	R^6	X	Base
acyl	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	H	CF_3	O	2-N-acetylaminohypoxanthine
acyl	acyl	CF_3	O	Thymine
acyl	acyl	CF_3	O	Uracil
acyl	acyl	CF_3	O	Guanine
acyl	acyl	CF_3	O	Cytosine
acyl	acyl	CF_3	O	Adenine
acyl	acyl	CF_3	O	Hypoxanthine
acyl	acyl	CF_3	O	5-Fluorouracil
acyl	acyl	CF_3	O	8-Fluoroguanine
acyl	acyl	CF_3	O	5-Fluorocytosine
acyl	acyl	CF_3	O	8-Fluoroadenine
acyl	acyl	CF_3	O	2-Fluoroadenine
acyl	acyl	CF_3	O	2,8-Difluoroadenine
acyl	acyl	CF_3	O	2-Fluorohypoxanthine
acyl	acyl	CF_3	O	8-Fluorohypoxanthine
acyl	acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminoadenine
acyl	acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-Aminohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylguanine
acyl	acyl	CF_3	O	4-N-acetylcytosine
acyl	acyl	CF_3	O	6-N-acetyladenine
acyl	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylaminoadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	amino acid	CF_3	O	Thymine
acyl	amino acid	CF_3	O	Uracil
acyl	amino acid	CF_3	O	Guanine
acyl	amino acid	CF_3	O	Cytosine
acyl	amino acid	CF_3	O	Adenine
acyl	amino acid	CF_3	O	Hypoxanthine
acyl	amino acid	CF_3	O	5-Fluorouracil
acyl	amino acid	CF_3	O	8-Fluoroguanine
acyl	amino acid	CF_3	O	5-Fluorocytosine
acyl	amino acid	CF_3	O	8-Fluoroadenine
acyl	amino acid	CF_3	O	2-Fluoroadenine
acyl	amino acid	CF_3	O	2,8-Difluoroadenine

R^2	R^3	R^6	X	Base
acyl	amino acid	CF_3	O	2-Fluorohypoxanthine
acyl	amino acid	CF_3	O	8-Fluorohypoxanthine
acyl	amino acid	CF_3	O	2,8-Difluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminoadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-Aminohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylguanine
acyl	amino acid	CF_3	O	4-N-acetylcytosine
acyl	amino acid	CF_3	O	6-N-acetyladenine
acyl	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylaminoadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
H	acyl	CF_3	O	Thymine
H	acyl	CF_3	O	Uracil
H	acyl	CF_3	O	Guanine
H	acyl	CF_3	O	Cytosine
H	acyl	CF_3	O	Adenine
H	acyl	CF_3	O	Hypoxanthine
H	acyl	CF_3	O	5-Fluorouracil
H	acyl	CF_3	O	8-Fluoroguanine
H	acyl	CF_3	O	5-Fluorocytosine
H	acyl	CF_3	O	8-Fluoroadenine
H	acyl	CF_3	O	2-Fluoroadenine
H	acyl	CF_3	O	2,8-Difluoroadenine
H	acyl	CF_3	O	2-Fluorohypoxanthine
H	acyl	CF_3	O	8-Fluorohypoxanthine
H	acyl	CF_3	O	2,8-Difluorohypoxanthine
H	acyl	CF_3	O	2-Aminoadenine
H	acyl	CF_3	O	2-Amino-8-fluoroadenine
H	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-Aminohypoxanthine
H	acyl	CF_3	O	2-N-acetylguanine
H	acyl	CF_3	O	4-N-acetylcytosine
H	acyl	CF_3	O	6-N-acetyladenine
H	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
H	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
H	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	acyl	CF_3	O	6-N-acetyl-2-aminoadenine

R^2	R^3	R^6	X	Base
H	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylaminoadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	acyl	CF_3	O	2-N-acetylaminohypoxanthine
H	amino acid	CF_3	O	Thymine
H	amino acid	CF_3	O	Uracil
H	amino acid	CF_3	O	Guanine
H	amino acid	CF_3	O	Cytosine
H	amino acid	CF_3	O	Adenine
H	amino acid	CF_3	O	Hypoxanthine
H	amino acid	CF_3	O	5-Fluorouracil
H	amino acid	CF_3	O	8-Fluoroguanine
H	amino acid	CF_3	O	5-Fluorocytosine
H	amino acid	CF_3	O	8-Fluoroadenine
H	amino acid	CF_3	O	2-Fluoroadenine
H	amino acid	CF_3	O	2,8-Difluoroadenine
H	amino acid	CF_3	O	2-Fluorohypoxanthine
H	amino acid	CF_3	O	8-Fluorohypoxanthine
H	amino acid	CF_3	O	2,8-Difluorohypoxanthine
H	amino acid	CF_3	O	2-Aminoadenine
H	amino acid	CF_3	O	2-Amino-8-fluoroadenine
H	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-Aminohypoxanthine
H	amino acid	CF_3	O	2-N-acetylguanine
H	amino acid	CF_3	O	4-N-acetylcytosine
H	amino acid	CF_3	O	6-N-acetyladenine
H	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
H	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
H	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
H	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
H	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylaminoadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
H	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
H	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	amino acid	CF_3	O	Thymine
amino acid	amino acid	CF_3	O	Uracil
amino acid	amino acid	CF_3	O	Guanine
amino acid	amino acid	CF_3	O	Cytosine
amino acid	amino acid	CF_3	O	Adenine
amino acid	amino acid	CF_3	O	Hypoxanthine
amino acid	amino acid	CF_3	O	5-Fluorouracil
amino acid	amino acid	CF_3	O	8-Fluoroguanine
amino acid	amino acid	CF_3	O	5-Fluorocytosine
amino acid	amino acid	CF_3	O	8-Fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	amino acid	CF_3	O	2-Fluoroadenine
amino acid	amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminoadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylguanine
amino acid	amino acid	CF_3	O	4-N-acetylcytosine
amino acid	amino acid	CF_3	O	6-N-acetyladenine
amino acid	amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	H	CF_3	O	Thymine
amino acid	H	CF_3	O	Uracil
amino acid	H	CF_3	O	Guanine
amino acid	H	CF_3	O	Cytosine
amino acid	H	CF_3	O	Adenine
amino acid	H	CF_3	O	Hypoxanthine
amino acid	H	CF_3	O	5-Fluorouracil
amino acid	H	CF_3	O	8-Fluoroguanine
amino acid	H	CF_3	O	5-Fluorocytosine
amino acid	H	CF_3	O	8-Fluoroadenine
amino acid	H	CF_3	O	2-Fluoroadenine
amino acid	H	CF_3	O	2,8-Difluoroadenine
amino acid	H	CF_3	O	2-Fluorohypoxanthine
amino acid	H	CF_3	O	8-Fluorohypoxanthine
amino acid	H	CF_3	O	2,8-Difluorohypoxanthine
amino acid	H	CF_3	O	2-Aminoadenine
amino acid	H	CF_3	O	2-Amino-8-fluoroadenine
amino acid	H	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-Aminohypoxanthine
amino acid	H	CF_3	O	2-N-acetylguanine
amino acid	H	CF_3	O	4-N-acetylcytosine
amino acid	H	CF_3	O	6-N-acetyladenine
amino acid	H	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	H	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	H	CF_3	O	6-N-acetyl-2-fluoroadenine

R^2	R^3	R^6	X	Base
amino acid	H	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	H	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	H	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylaminoadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	H	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	H	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	acyl	CF_3	O	Thymine
amino acid	acyl	CF_3	O	Uracil
amino acid	acyl	CF_3	O	Guanine
amino acid	acyl	CF_3	O	Cytosine
amino acid	acyl	CF_3	O	Adenine
amino acid	acyl	CF_3	O	Hypoxanthine
amino acid	acyl	CF_3	O	5-Fluorouracil
amino acid	acyl	CF_3	O	8-Fluoroguanine
amino acid	acyl	CF_3	O	5-Fluorocytosine
amino acid	acyl	CF_3	O	8-Fluoroadenine
amino acid	acyl	CF_3	O	2-Fluoroadenine
amino acid	acyl	CF_3	O	2,8-Difluoroadenine
amino acid	acyl	CF_3	O	2-Fluorohypoxanthine
amino acid	acyl	CF_3	O	8-Fluorohypoxanthine
amino acid	acyl	CF_3	O	2,8-Difluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminoadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-Aminohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylguanine
amino acid	acyl	CF_3	O	4-N-acetylcytosine
amino acid	acyl	CF_3	O	6-N-acetyladenine
amino acid	acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylaminoadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	acyl	CF_3	O	2-N-acetylaminohypoxanthine

Table 22

R^2	R^6	X	Base
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine
amino acid	CH_3	O	2,8-Difluoroadenine

R^2	R^6	X	Base
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine

R^2	R^6	X	Base
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine

R^2	R^6	X	Base
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine

R^2	R^6	X	Base
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine

Table 23

R^2	R^6	X	Base
amino acid	CH_3	O	Thymine
amino acid	CH_3	O	Uracil
amino acid	CH_3	O	Guanine
amino acid	CH_3	O	Cytosine
amino acid	CH_3	O	Adenine
amino acid	CH_3	O	Hypoxanthine
amino acid	CH_3	O	5-Fluorouracil
amino acid	CH_3	O	8-Fluoroguanine
amino acid	CH_3	O	5-Fluorocytosine
amino acid	CH_3	O	8-Fluoroadenine
amino acid	CH_3	O	2-Fluoroadenine
amino acid	CH_3	O	2,8-Difluoroadenine
amino acid	CH_3	O	2-Fluorohypoxanthine
amino acid	CH_3	O	8-Fluorohypoxanthine
amino acid	CH_3	O	2,8-Difluorohypoxanthine
amino acid	CH_3	O	2-Aminoadenine
amino acid	CH_3	O	2-Amino-8-fluoroadenine
amino acid	CH_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	O	2-Aminohypoxanthine
amino acid	CH_3	O	2-N-acetylguanine
amino acid	CH_3	O	4-N-acetylcytosine
amino acid	CH_3	O	6-N-acetyladenine
amino acid	CH_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	O	6-N-acetyl-2-aminoadenine
amino acid	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylaminoadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	O	2-N-acetylaminohypoxanthine
amino acid	CH_3	S	Thymine
amino acid	CH_3	S	Uracil
amino acid	CH_3	S	Guanine
amino acid	CH_3	S	Cytosine
amino acid	CH_3	S	Adenine
amino acid	CH_3	S	Hypoxanthine
amino acid	CH_3	S	5-Fluorouracil
amino acid	CH_3	S	8-Fluoroguanine
amino acid	CH_3	S	5-Fluorocytosine
amino acid	CH_3	S	8-Fluoroadenine
amino acid	CH_3	S	2-Fluoroadenine
amino acid	CH_3	S	2,8-Difluoroadenine
amino acid	CH_3	S	2-Fluorohypoxanthine

R^2	R^6	X	Base
amino acid	CH_3	S	8-Fluorohypoxanthine
amino acid	CH_3	S	2,8-Difluorohypoxanthine
amino acid	CH_3	S	2-Aminoadenine
amino acid	CH_3	S	2-Amino-8-fluoroadenine
amino acid	CH_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CH_3	S	2-Aminohypoxanthine
amino acid	CH_3	S	2-N-acetylguanine
amino acid	CH_3	S	4-N-acetylcytosine
amino acid	CH_3	S	6-N-acetyladenine
amino acid	CH_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CH_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CH_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CH_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CH_3	S	6-N-acetyl-2-aminoadenine
amino acid	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylaminoadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CH_3	S	2-N-acetylaminohypoxanthine
amino acid	CF_3	O	Thymine
amino acid	CF_3	O	Uracil
amino acid	CF_3	O	Guanine
amino acid	CF_3	O	Cytosine
amino acid	CF_3	O	Adenine
amino acid	CF_3	O	Hypoxanthine
amino acid	CF_3	O	5-Fluorouracil
amino acid	CF_3	O	8-Fluoroguanine
amino acid	CF_3	O	5-Fluorocytosine
amino acid	CF_3	O	8-Fluoroadenine
amino acid	CF_3	O	2-Fluoroadenine
amino acid	CF_3	O	2,8-Difluoroadenine
amino acid	CF_3	O	2-Fluorohypoxanthine
amino acid	CF_3	O	8-Fluorohypoxanthine
amino acid	CF_3	O	2,8-Difluorohypoxanthine
amino acid	CF_3	O	2-Aminoadenine
amino acid	CF_3	O	2-Amino-8-fluoroadenine
amino acid	CF_3	O	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	O	2-Aminohypoxanthine
amino acid	CF_3	O	2-N-acetylguanine
amino acid	CF_3	O	4-N-acetylcytosine
amino acid	CF_3	O	6-N-acetyladenine
amino acid	CF_3	O	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	O	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	O	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	O	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	O	6-N-acetyl-2-aminoadenine
amino acid	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine

R^2	R^6	X	Base
amino acid	CF_3	O	2-N-acetylaminoadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	O	2-N-acetylaminohypoxanthine
amino acid	CF_3	S	Thymine
amino acid	CF_3	S	Uracil
amino acid	CF_3	S	Guanine
amino acid	CF_3	S	Cytosine
amino acid	CF_3	S	Adenine
amino acid	CF_3	S	Hypoxanthine
amino acid	CF_3	S	5-Fluorouracil
amino acid	CF_3	S	8-Fluoroguanine
amino acid	CF_3	S	5-Fluorocytosine
amino acid	CF_3	S	8-Fluoroadenine
amino acid	CF_3	S	2-Fluoroadenine
amino acid	CF_3	S	2,8-Difluoroadenine
amino acid	CF_3	S	2-Fluorohypoxanthine
amino acid	CF_3	S	8-Fluorohypoxanthine
amino acid	CF_3	S	2,8-Difluorohypoxanthine
amino acid	CF_3	S	2-Aminoadenine
amino acid	CF_3	S	2-Amino-8-fluoroadenine
amino acid	CF_3	S	2-Amino-8-fluorohypoxanthine
amino acid	CF_3	S	2-Aminohypoxanthine
amino acid	CF_3	S	2-N-acetylguanine
amino acid	CF_3	S	4-N-acetylcytosine
amino acid	CF_3	S	6-N-acetyladenine
amino acid	CF_3	S	2-N-acetyl-8-fluoroguanine
amino acid	CF_3	S	4-N-acetyl-5-fluorocytosine
amino acid	CF_3	S	6-N-acetyl-2-fluoroadenine
amino acid	CF_3	S	6-N-acetyl-2,8-difluoroadenine
amino acid	CF_3	S	6-N-acetyl-2-aminoadenine
amino acid	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylaminoadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluoroadenine
amino acid	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
amino acid	CF_3	S	2-N-acetylaminohypoxanthine
acyl	CH_3	O	Thymine
acyl	CH_3	O	Uracil
acyl	CH_3	O	Guanine
acyl	CH_3	O	Cytosine
acyl	CH_3	O	Adenine
acyl	CH_3	O	Hypoxanthine
acyl	CH_3	O	5-Fluorouracil
acyl	CH_3	O	8-Fluoroguanine
acyl	CH_3	O	5-Fluorocytosine
acyl	CH_3	O	8-Fluoroadenine
acyl	CH_3	O	2-Fluoroadenine

R^2	R^6	X	Base
acyl	CH_3	O	2,8-Difluoroadenine
acyl	CH_3	O	2-Fluorohypoxanthine
acyl	CH_3	O	8-Fluorohypoxanthine
acyl	CH_3	O	2,8-Difluorohypoxanthine
acyl	CH_3	O	2-Aminoadenine
acyl	CH_3	O	2-Amino-8-fluoroadenine
acyl	CH_3	O	2-Amino-8-fluorohypoxanthine
acyl	CH_3	O	2-Aminohypoxanthine
acyl	CH_3	O	2-N-acetylguanine
acyl	CH_3	O	4-N-acetylcytosine
acyl	CH_3	O	6-N-acetyladenine
acyl	CH_3	O	2-N-acetyl-8-fluoroguanine
acyl	CH_3	O	4-N-acetyl-5-fluorocytosine
acyl	CH_3	O	6-N-acetyl-2-fluoroadenine
acyl	CH_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CH_3	O	6-N-acetyl-2-aminoadenine
acyl	CH_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylaminoadenine
acyl	CH_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	O	2-N-acetylaminohypoxanthine
acyl	CH_3	S	Thymine
acyl	CH_3	S	Uracil
acyl	CH_3	S	Guanine
acyl	CH_3	S	Cytosine
acyl	CH_3	S	Adenine
acyl	CH_3	S	Hypoxanthine
acyl	CH_3	S	5-Fluorouracil
acyl	CH_3	S	8-Fluoroguanine
acyl	CH_3	S	5-Fluorocytosine
acyl	CH_3	S	8-Fluoroadenine
acyl	CH_3	S	2-Fluoroadenine
acyl	CH_3	S	2,8-Difluoroadenine
acyl	CH_3	S	2-Fluorohypoxanthine
acyl	CH_3	S	8-Fluorohypoxanthine
acyl	CH_3	S	2,8-Difluorohypoxanthine
acyl	CH_3	S	2-Aminoadenine
acyl	CH_3	S	2-Amino-8-fluoroadenine
acyl	CH_3	S	2-Amino-8-fluorohypoxanthine
acyl	CH_3	S	2-Aminohypoxanthine
acyl	CH_3	S	2-N-acetylguanine
acyl	CH_3	S	4-N-acetylcytosine
acyl	CH_3	S	6-N-acetyladenine
acyl	CH_3	S	2-N-acetyl-8-fluoroguanine
acyl	CH_3	S	4-N-acetyl-5-fluorocytosine
acyl	CH_3	S	6-N-acetyl-2-fluoroadenine
acyl	CH_3	S	6-N-acetyl-2,8-difluoroadenine

R^2	R^6	X	Base
acyl	CH_3	S	6-N-acetyl-2-aminoadenine
acyl	CH_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylaminoadenine
acyl	CH_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CH_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CH_3	S	2-N-acetylaminohypoxanthine
acyl	CF_3	O	Thymine
acyl	CF_3	O	Uracil
acyl	CF_3	O	Guanine
acyl	CF_3	O	Cytosine
acyl	CF_3	O	Adenine
acyl	CF_3	O	Hypoxanthine
acyl	CF_3	O	5-Fluorouracil
acyl	CF_3	O	8-Fluoroguanine
acyl	CF_3	O	5-Fluorocytosine
acyl	CF_3	O	8-Fluoroadenine
acyl	CF_3	O	2-Fluoroadenine
acyl	CF_3	O	2,8-Difluoroadenine
acyl	CF_3	O	2-Fluorohypoxanthine
acyl	CF_3	O	8-Fluorohypoxanthine
acyl	CF_3	O	2,8-Difluorohypoxanthine
acyl	CF_3	O	2-Aminoadenine
acyl	CF_3	O	2-Amino-8-fluoroadenine
acyl	CF_3	O	2-Amino-8-fluorohypoxanthine
acyl	CF_3	O	2-Aminohypoxanthine
acyl	CF_3	O	2-N-acetylguanine
acyl	CF_3	O	4-N-acetylcytosine
acyl	CF_3	O	6-N-acetyladenine
acyl	CF_3	O	2-N-acetyl-8-fluoroguanine
acyl	CF_3	O	4-N-acetyl-5-fluorocytosine
acyl	CF_3	O	6-N-acetyl-2-fluoroadenine
acyl	CF_3	O	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	O	6-N-acetyl-2-aminoadenine
acyl	CF_3	O	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylaminoadenine
acyl	CF_3	O	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	O	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	O	2-N-acetylaminohypoxanthine
acyl	CF_3	S	Thymine
acyl	CF_3	S	Uracil
acyl	CF_3	S	Guanine
acyl	CF_3	S	Cytosine
acyl	CF_3	S	Adenine
acyl	CF_3	S	Hypoxanthine
acyl	CF_3	S	5-Fluorouracil
acyl	CF_3	S	8-Fluoroguanine
acyl	CF_3	S	5-Fluorocytosine

R^2	R^6	X	Base
acyl	CF_3	S	8-Fluoroadenine
acyl	CF_3	S	2-Fluoroadenine
acyl	CF_3	S	2,8-Difluoroadenine
acyl	CF_3	S	2-Fluorohypoxanthine
acyl	CF_3	S	8-Fluorohypoxanthine
acyl	CF_3	S	2,8-Difluorohypoxanthine
acyl	CF_3	S	2-Aminoadenine
acyl	CF_3	S	2-Amino-8-fluoroadenine
acyl	CF_3	S	2-Amino-8-fluorohypoxanthine
acyl	CF_3	S	2-Aminohypoxanthine
acyl	CF_3	S	2-N-acetylguanine
acyl	CF_3	S	4-N-acetylcytosine
acyl	CF_3	S	6-N-acetyladenine
acyl	CF_3	S	2-N-acetyl-8-fluoroguanine
acyl	CF_3	S	4-N-acetyl-5-fluorocytosine
acyl	CF_3	S	6-N-acetyl-2-fluoroadenine
acyl	CF_3	S	6-N-acetyl-2,8-difluoroadenine
acyl	CF_3	S	6-N-acetyl-2-aminoadenine
acyl	CF_3	S	6-N-acetyl-2-amino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylaminoadenine
acyl	CF_3	S	2-N-acetylamino-8-fluoroadenine
acyl	CF_3	S	2-N-acetylamino-8-fluorohypoxanthine
acyl	CF_3	S	2-N-acetylaminohypoxanthine

Table 24

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	Thymine	F	H
CH_3	O-acyl	F	O	Uracil	F	H
CH_3	O-acyl	F	O	Guanine	F	H
CH_3	O-acyl	F	O	Cytosine	F	H
CH_3	O-acyl	F	O	Adenine	F	H
CH_3	O-acyl	F	O	Hypoxanthine	F	H
CH_3	O-acyl	F	O	5-Fluorouracil	F	H
CH_3	O-acyl	F	O	8-Fluoroguanine	F	H
CH_3	O-acyl	F	O	5-Fluorocytosine	F	H
CH_3	O-acyl	F	O	8-Fluoroadenine	F	H
CH_3	O-acyl	F	O	2-Fluoroadenine	F	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2-Aminoadenine	F	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	F	O	2-N-acetylguanine	F	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	F	O	6-N-acetyladenine	F	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	F	O	Thymine	F	O-amino acid
CH_3	O-acyl	F	O	Uracil	F	O-amino acid
CH_3	O-acyl	F	O	Guanine	F	O-amino acid
CH_3	O-acyl	F	O	Cytosine	F	O-amino acid
CH_3	O-acyl	F	O	Adenine	F	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	O	Thymine	F	O-acyl
CH_3	O-acyl	F	O	Uracil	F	O-acyl
CH_3	O-acyl	F	O	Guanine	F	O-acyl
CH_3	O-acyl	F	O	Cytosine	F	O-acyl
CH_3	O-acyl	F	O	Adenine	F	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	O	Thymine	F	OH
CH_3	O-acyl	F	O	Uracil	F	OH
CH_3	O-acyl	F	O	Guanine	F	OH
CH_3	O-acyl	F	O	Cytosine	F	OH
CH_3	O-acyl	F	O	Adenine	F	OH
CH_3	O-acyl	F	O	Hypoxanthine	F	OH
CH_3	O-acyl	F	O	5-Fluorouracil	F	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	F	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-Aminoadenine	F	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	F	O	Thymine	Br	H
CH_3	O-acyl	F	O	Uracil	Br	H
CH_3	O-acyl	F	O	Guanine	Br	H
CH_3	O-acyl	F	O	Cytosine	Br	H
CH_3	O-acyl	F	O	Adenine	Br	H
CH_3	O-acyl	F	O	Hypoxanthine	Br	H
CH_3	O-acyl	F	O	5-Fluorouracil	Br	H
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-Aminoadenine	Br	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	F	O	Thymine	Br	O-amino acid
CH_3	O-acyl	F	O	Uracil	Br	O-amino acid
CH_3	O-acyl	F	O	Guanine	Br	O-amino acid
CH_3	O-acyl	F	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	F	O	Adenine	Br	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	O	Thymine	Br	O-acyl
CH_3	O-acyl	F	O	Uracil	Br	O-acyl
CH_3	O-acyl	F	O	Guanine	Br	O-acyl
CH_3	O-acyl	F	O	Cytosine	Br	O-acyl
CH_3	O-acyl	F	O	Adenine	Br	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	O	Thymine	Br	OH
CH_3	O-acyl	F	O	Uracil	Br	OH
CH_3	O-acyl	F	O	Guanine	Br	OH
CH_3	O-acyl	F	O	Cytosine	Br	OH
CH_3	O-acyl	F	O	Adenine	Br	OH
CH_3	O-acyl	F	O	Hypoxanthine	Br	OH
CH_3	O-acyl	F	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	F	O	Thymine	Cl	O-acyl
CH_3	O-acyl	F	O	Uracil	Cl	O-acyl
CH_3	O-acyl	F	O	Guanine	Cl	O-acyl
CH_3	O-acyl	F	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	F	O	Adenine	Cl	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	O	Thymine	Cl	OH
CH_3	O-acyl	F	O	Uracil	Cl	OH
CH_3	O-acyl	F	O	Guanine	Cl	OH
CH_3	O-acyl	F	O	Cytosine	Cl	OH
CH_3	O-acyl	F	O	Adenine	Cl	OH
CH_3	O-acyl	F	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	F	O	Thymine	Cl	H
CH_3	O-acyl	F	O	Uracil	Cl	H
CH_3	O-acyl	F	O	Guanine	Cl	H
CH_3	O-acyl	F	O	Cytosine	Cl	H
CH_3	O-acyl	F	O	Adenine	Cl	H
CH_3	O-acyl	F	O	Hypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	F	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	F	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	F	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	F	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	F	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	O	Thymine	H	H
CH_3	O-acyl	F	O	Uracil	H	H
CH_3	O-acyl	F	O	Guanine	H	H
CH_3	O-acyl	F	O	Cytosine	H	H
CH_3	O-acyl	F	O	Adenine	H	H
CH_3	O-acyl	F	O	Hypoxanthine	H	H
CH_3	O-acyl	F	O	5-Fluorouracil	H	H
CH_3	O-acyl	F	O	8-Fluoroguanine	H	H
CH_3	O-acyl	F	O	5-Fluorocytosine	H	H
CH_3	O-acyl	F	O	8-Fluoroadenine	H	H
CH_3	O-acyl	F	O	2-Fluoroadenine	H	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2-Aminoadenine	H	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	F	O	2-N-acetylguanine	H	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	F	O	6-N-acetyladenine	H	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	F	O	Thymine	H	O-amino acid
CH_3	O-acyl	F	O	Uracil	H	O-amino acid
CH_3	O-acyl	F	O	Guanine	H	O-amino acid
CH_3	O-acyl	F	O	Cytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	Adenine	H	O-amino acid
CH_3	O-acyl	F	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	O	Thymine	H	O-acyl
CH_3	O-acyl	F	O	Uracil	H	O-acyl
CH_3	O-acyl	F	O	Guanine	H	O-acyl
CH_3	O-acyl	F	O	Cytosine	H	O-acyl
CH_3	O-acyl	F	O	Adenine	H	O-acyl
CH_3	O-acyl	F	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	F	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	F	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	F	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	O	Thymine	H	OH
CH_3	O-acyl	F	O	Uracil	H	OH
CH_3	O-acyl	F	O	Guanine	H	OH
CH_3	O-acyl	F	O	Cytosine	H	OH
CH_3	O-acyl	F	O	Adenine	H	OH
CH_3	O-acyl	F	O	Hypoxanthine	H	OH
CH_3	O-acyl	F	O	5-Fluorouracil	H	OH
CH_3	O-acyl	F	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	F	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	F	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	F	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-Aminoadenine	H	OH
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	F	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	F	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	F	O	Thymine	OH	H
CH_3	O-acyl	F	O	Uracil	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	O	Guanine	OH	H
CH_3	O-acyl	F	O	Cytosine	OH	H
CH_3	O-acyl	F	O	Adenine	OH	H
CH_3	O-acyl	F	O	Hypoxanthine	OH	H
CH_3	O-acyl	F	O	5-Fluorouracil	OH	H
CH_3	O-acyl	F	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	F	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	F	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	F	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	F	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-Aminoadenine	OH	H
CH_3	O-acyl	F	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	F	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	F	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Br	O	Thymine	F	H
CH_3	O-acyl	Br	O	Uracil	F	H
CH_3	O-acyl	Br	O	Guanine	F	H
CH_3	O-acyl	Br	O	Cytosine	F	H
CH_3	O-acyl	Br	O	Adenine	F	H
CH_3	O-acyl	Br	O	Hypoxanthine	F	H
CH_3	O-acyl	Br	O	5-Fluorouracil	F	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-Aminoadenine	F	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Br	O	Thymine	F	O-amino acid
CH_3	O-acyl	Br	O	Uracil	F	O-amino acid
CH_3	O-acyl	Br	O	Guanine	F	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	F	O-amino acid
CH_3	O-acyl	Br	O	Adenine	F	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	Thymine	F	O-acyl
CH_3	O-acyl	Br	O	Uracil	F	O-acyl
CH_3	O-acyl	Br	O	Guanine	F	O-acyl
CH_3	O-acyl	Br	O	Cytosine	F	O-acyl
CH_3	O-acyl	Br	O	Adenine	F	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	O	Thymine	F	OH
CH_3	O-acyl	Br	O	Uracil	F	OH
CH_3	O-acyl	Br	O	Guanine	F	OH
CH_3	O-acyl	Br	O	Cytosine	F	OH
CH_3	O-acyl	Br	O	Adenine	F	OH
CH_3	O-acyl	Br	O	Hypoxanthine	F	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	F	OH
CH_3	O-acyl	Br	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-Aminoadenine	F	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Br	O	Thymine	Br	H
CH_3	O-acyl	Br	O	Uracil	Br	H
CH_3	O-acyl	Br	O	Guanine	Br	H
CH_3	O-acyl	Br	O	Cytosine	Br	H
CH_3	O-acyl	Br	O	Adenine	Br	H
CH_3	O-acyl	Br	O	Hypoxanthine	Br	H
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Br	O	Thymine	Br	O-amino acid
CH_3	O-acyl	Br	O	Uracil	Br	O-amino acid
CH_3	O-acyl	Br	O	Guanine	Br	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	Adenine	Br	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	O	Thymine	Br	O-acyl
CH_3	O-acyl	Br	O	Uracil	Br	O-acyl
CH_3	O-acyl	Br	O	Guanine	Br	O-acyl
CH_3	O-acyl	Br	O	Cytosine	Br	O-acyl
CH_3	O-acyl	Br	O	Adenine	Br	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	O	Thymine	Br	OH
CH_3	O-acyl	Br	O	Uracil	Br	OH
CH_3	O-acyl	Br	O	Guanine	Br	OH
CH_3	O-acyl	Br	O	Cytosine	Br	OH
CH_3	O-acyl	Br	O	Adenine	Br	OH
CH_3	O-acyl	Br	O	Hypoxanthine	Br	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	Br	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Br	O	Thymine	Cl	H
CH_3	O-acyl	Br	O	Uracil	Cl	H
CH_3	O-acyl	Br	O	Guanine	Cl	H
CH_3	O-acyl	Br	O	Cytosine	Cl	H
CH_3	O-acyl	Br	O	Adenine	Cl	H
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	H
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Br	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	Br	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	O	Thymine	Cl	O-acyl
CH_3	O-acyl	Br	O	Uracil	Cl	O-acyl
CH_3	O-acyl	Br	O	Guanine	Cl	O-acyl
CH_3	O-acyl	Br	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	Adenine	Cl	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	O	Thymine	Cl	OH
CH_3	O-acyl	Br	O	Uracil	Cl	OH
CH_3	O-acyl	Br	O	Guanine	Cl	OH
CH_3	O-acyl	Br	O	Cytosine	Cl	OH
CH_3	O-acyl	Br	O	Adenine	Cl	OH
CH_3	O-acyl	Br	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Br	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	O	Thymine	H	H
CH_3	O-acyl	Br	O	Uracil	H	H
CH_3	O-acyl	Br	O	Guanine	H	H
CH_3	O-acyl	Br	O	Cytosine	H	H
CH_3	O-acyl	Br	O	Adenine	H	H
CH_3	O-acyl	Br	O	Hypoxanthine	H	H
CH_3	O-acyl	Br	O	5-Fluorouracil	H	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-Aminoadenine	H	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	H
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Br	O	Thymine	H	O-amino acid
CH_3	O-acyl	Br	O	Uracil	H	O-amino acid
CH_3	O-acyl	Br	O	Guanine	H	O-amino acid
CH_3	O-acyl	Br	O	Cytosine	H	O-amino acid
CH_3	O-acyl	Br	O	Adenine	H	O-amino acid
CH_3	O-acyl	Br	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	O	Thymine	H	O-acyl
CH_3	O-acyl	Br	O	Uracil	H	O-acyl
CH_3	O-acyl	Br	O	Guanine	H	O-acyl
CH_3	O-acyl	Br	O	Cytosine	H	O-acyl
CH_3	O-acyl	Br	O	Adenine	H	O-acyl
CH_3	O-acyl	Br	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	O	Thymine	H	OH
CH_3	O-acyl	Br	O	Uracil	H	OH
CH_3	O-acyl	Br	O	Guanine	H	OH
CH_3	O-acyl	Br	O	Cytosine	H	OH
CH_3	O-acyl	Br	O	Adenine	H	OH
CH_3	O-acyl	Br	O	Hypoxanthine	H	OH
CH_3	O-acyl	Br	O	5-Fluorouracil	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	Br	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	Br	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-Aminoadenine	H	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	Br	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Br	O	Thymine	OH	H
CH_3	O-acyl	Br	O	Uracil	OH	H
CH_3	O-acyl	Br	O	Guanine	OH	H
CH_3	O-acyl	Br	O	Cytosine	OH	H
CH_3	O-acyl	Br	O	Adenine	OH	H
CH_3	O-acyl	Br	O	Hypoxanthine	OH	H
CH_3	O-acyl	Br	O	5-Fluorouracil	OH	H
CH_3	O-acyl	Br	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	Br	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	Br	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-Aminoadenine	OH	H
CH_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	Br	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyladenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	Thymine	F	H
CH_3	O-acyl	Cl	O	Uracil	F	H
CH_3	O-acyl	Cl	O	Guanine	F	H
CH_3	O-acyl	Cl	O	Cytosine	F	H
CH_3	O-acyl	Cl	O	Adenine	F	H
CH_3	O-acyl	Cl	O	Hypoxanthine	F	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Cl	O	Thymine	F	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	F	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	F	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	F	O-acyl
CH_3	O-acyl	Cl	O	Uracil	F	O-acyl
CH_3	O-acyl	Cl	O	Guanine	F	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	F	O-acyl
CH_3	O-acyl	Cl	O	Adenine	F	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	O	Thymine	F	OH
CH_3	O-acyl	Cl	O	Uracil	F	OH
CH_3	O-acyl	Cl	O	Guanine	F	OH
CH_3	O-acyl	Cl	O	Cytosine	F	OH
CH_3	O-acyl	Cl	O	Adenine	F	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	F	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	F	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	F	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	F	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Cl	O	Thymine	Br	H
CH_3	O-acyl	Cl	O	Uracil	Br	H
CH_3	O-acyl	Cl	O	Guanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	Cytosine	Br	H
CH_3	O-acyl	Cl	O	Adenine	Br	H
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Cl	O	Thymine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	Br	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	Br	O-acyl
CH_3	O-acyl	Cl	O	Uracil	Br	O-acyl
CH_3	O-acyl	Cl	O	Guanine	Br	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	Adenine	Br	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	O	Thymine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	Uracil	Br	OH
CH_3	O-acyl	Cl	O	Guanine	Br	OH
CH_3	O-acyl	Cl	O	Cytosine	Br	OH
CH_3	O-acyl	Cl	O	Adenine	Br	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	O	Thymine	Cl	H
CH_3	O-acyl	Cl	O	Uracil	Cl	H
CH_3	O-acyl	Cl	O	Guanine	Cl	H
CH_3	O-acyl	Cl	O	Cytosine	Cl	H
CH_3	O-acyl	Cl	O	Adenine	Cl	H
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Uracil	Cl	O-acyl
CH_3	O-acyl	Cl	O	Guanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Adenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	O	Thymine	Cl	OH
CH_3	O-acyl	Cl	O	Uracil	Cl	OH
CH_3	O-acyl	Cl	O	Guanine	Cl	OH
CH_3	O-acyl	Cl	O	Cytosine	Cl	OH
CH_3	O-acyl	Cl	O	Adenine	Cl	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	O	Thymine	H	H
CH_3	O-acyl	Cl	O	Uracil	H	H
CH_3	O-acyl	Cl	O	Guanine	H	H
CH_3	O-acyl	Cl	O	Cytosine	H	H
CH_3	O-acyl	Cl	O	Adenine	H	H
CH_3	O-acyl	Cl	O	Hypoxanthine	H	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Cl	O	Thymine	H	O-amino acid
CH_3	O-acyl	Cl	O	Uracil	H	O-amino acid
CH_3	O-acyl	Cl	O	Guanine	H	O-amino acid
CH_3	O-acyl	Cl	O	Cytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	Adenine	H	O-amino acid
CH_3	O-acyl	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	O	Thymine	H	O-acyl
CH_3	O-acyl	Cl	O	Uracil	H	O-acyl
CH_3	O-acyl	Cl	O	Guanine	H	O-acyl
CH_3	O-acyl	Cl	O	Cytosine	H	O-acyl
CH_3	O-acyl	Cl	O	Adenine	H	O-acyl
CH_3	O-acyl	Cl	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	O	Thymine	H	OH
CH_3	O-acyl	Cl	O	Uracil	H	OH
CH_3	O-acyl	Cl	O	Guanine	H	OH
CH_3	O-acyl	Cl	O	Cytosine	H	OH
CH_3	O-acyl	Cl	O	Adenine	H	OH
CH_3	O-acyl	Cl	O	Hypoxanthine	H	OH
CH_3	O-acyl	Cl	O	5-Fluorouracil	H	OH
CH_3	O-acyl	Cl	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	Cl	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	Cl	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-Aminoadenine	H	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Cl	O	Thymine	OH	H
CH_3	O-acyl	Cl	O	Uracil	OH	H
CH_3	O-acyl	Cl	O	Guanine	OH	H
CH_3	O-acyl	Cl	O	Cytosine	OH	H
CH_3	O-acyl	Cl	O	Adenine	OH	H
CH_3	O-acyl	Cl	O	Hypoxanthine	OH	H
CH_3	O-acyl	Cl	O	5-Fluorouracil	OH	H
CH_3	O-acyl	Cl	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	Cl	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	Cl	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-Aminoadenine	OH	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	Cl	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	H	O	Thymine	F	H
CH_3	O-acyl	H	O	Uracil	F	H
CH_3	O-acyl	H	O	Guanine	F	H
CH_3	O-acyl	H	O	Cytosine	F	H
CH_3	O-acyl	H	O	Adenine	F	H
CH_3	O-acyl	H	O	Hypoxanthine	F	H
CH_3	O-acyl	H	O	5-Fluorouracil	F	H
CH_3	O-acyl	H	O	8-Fluoroguanine	F	H
CH_3	O-acyl	H	O	5-Fluorocytosine	F	H
CH_3	O-acyl	H	O	8-Fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-Fluoroadenine	F	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2-Aminoadenine	F	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	H
CH_3	O-acyl	H	O	2-N-acetylguanine	F	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	H
CH_3	O-acyl	H	O	6-N-acetyladenine	F	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	H	O	Thymine	F	O-amino acid
CH_3	O-acyl	H	O	Uracil	F	O-amino acid
CH_3	O-acyl	H	O	Guanine	F	O-amino acid
CH_3	O-acyl	H	O	Cytosine	F	O-amino acid
CH_3	O-acyl	H	O	Adenine	F	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	O	Thymine	F	O-acyl
CH_3	O-acyl	H	O	Uracil	F	O-acyl
CH_3	O-acyl	H	O	Guanine	F	O-acyl
CH_3	O-acyl	H	O	Cytosine	F	O-acyl
CH_3	O-acyl	H	O	Adenine	F	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	O	Thymine	F	OH
CH_3	O-acyl	H	O	Uracil	F	OH
CH_3	O-acyl	H	O	Guanine	F	OH
CH_3	O-acyl	H	O	Cytosine	F	OH
CH_3	O-acyl	H	O	Adenine	F	OH
CH_3	O-acyl	H	O	Hypoxanthine	F	OH
CH_3	O-acyl	H	O	5-Fluorouracil	F	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	5-Fluorocytosine	F	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	F	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-Aminoadenine	F	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	F	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	F	OH
CH_3	O-acyl	H	O	6-N-acetyladenine	F	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	H	O	Thymine	Br	H
CH_3	O-acyl	H	O	Uracil	Br	H
CH_3	O-acyl	H	O	Guanine	Br	H
CH_3	O-acyl	H	O	Cytosine	Br	H
CH_3	O-acyl	H	O	Adenine	Br	H
CH_3	O-acyl	H	O	Hypoxanthine	Br	H
CH_3	O-acyl	H	O	5-Fluorouracil	Br	H
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	H
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	H
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-Aminoadenine	Br	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	H
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	H	O	Thymine	Br	O-amino acid
CH_3	O-acyl	H	O	Uracil	Br	O-amino acid
CH_3	O-acyl	H	O	Guanine	Br	O-amino acid
CH_3	O-acyl	H	O	Cytosine	Br	O-amino acid
CH_3	O-acyl	H	O	Adenine	Br	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	O	Thymine	Br	O-acyl
CH_3	O-acyl	H	O	Uracil	Br	O-acyl
CH_3	O-acyl	H	O	Guanine	Br	O-acyl
CH_3	O-acyl	H	O	Cytosine	Br	O-acyl
CH_3	O-acyl	H	O	Adenine	Br	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	O	Thymine	Br	OH
CH_3	O-acyl	H	O	Uracil	Br	OH
CH_3	O-acyl	H	O	Guanine	Br	OH
CH_3	O-acyl	H	O	Cytosine	Br	OH
CH_3	O-acyl	H	O	Adenine	Br	OH
CH_3	O-acyl	H	O	Hypoxanthine	Br	OH
CH_3	O-acyl	H	O	5-Fluorouracil	Br	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	Br	OH
CH_3	O-acyl	H	O	5-Fluorocytosine	Br	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-Aminoadenine	Br	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	Br	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	6-N-acetyladenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	H	O	Thymine	Cl	H
CH_3	O-acyl	H	O	Uracil	Cl	H
CH_3	O-acyl	H	O	Guanine	Cl	H
CH_3	O-acyl	H	O	Cytosine	Cl	H
CH_3	O-acyl	H	O	Adenine	Cl	H
CH_3	O-acyl	H	O	Hypoxanthine	Cl	H
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	H
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	H
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	H
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	H	O	Thymine	Cl	O-amino acid
CH_3	O-acyl	H	O	Uracil	Cl	O-amino acid
CH_3	O-acyl	H	O	Guanine	Cl	O-amino acid
CH_3	O-acyl	H	O	Cytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	Adenine	Cl	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	O	Thymine	Cl	O-acyl
CH_3	O-acyl	H	O	Uracil	Cl	O-acyl
CH_3	O-acyl	H	O	Guanine	Cl	O-acyl
CH_3	O-acyl	H	O	Cytosine	Cl	O-acyl
CH_3	O-acyl	H	O	Adenine	Cl	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	O	Thymine	Cl	OH
CH_3	O-acyl	H	O	Uracil	Cl	OH
CH_3	O-acyl	H	O	Guanine	Cl	OH
CH_3	O-acyl	H	O	Cytosine	Cl	OH
CH_3	O-acyl	H	O	Adenine	Cl	OH
CH_3	O-acyl	H	O	Hypoxanthine	Cl	OH
CH_3	O-acyl	H	O	5-Fluorouracil	Cl	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	H	O	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-Aminoadenine	Cl	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	H	O	Thymine	H	H
CH_3	O-acyl	H	O	Uracil	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	Guanine	H	H
CH_3	O-acyl	H	O	Cytosine	H	H
CH_3	O-acyl	H	O	Adenine	H	H
CH_3	O-acyl	H	O	Hypoxanthine	H	H
CH_3	O-acyl	H	O	5-Fluorouracil	H	H
CH_3	O-acyl	H	O	8-Fluoroguanine	H	H
CH_3	O-acyl	H	O	5-Fluorocytosine	H	H
CH_3	O-acyl	H	O	8-Fluoroadenine	H	H
CH_3	O-acyl	H	O	2-Fluoroadenine	H	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2-Aminoadenine	H	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	H
CH_3	O-acyl	H	O	2-N-acetylguanine	H	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	H
CH_3	O-acyl	H	O	6-N-acetyladenine	H	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	H	O	Thymine	H	O-amino acid
CH_3	O-acyl	H	O	Uracil	H	O-amino acid
CH_3	O-acyl	H	O	Guanine	H	O-amino acid
CH_3	O-acyl	H	O	Cytosine	H	O-amino acid
CH_3	O-acyl	H	O	Adenine	H	O-amino acid
CH_3	O-acyl	H	O	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	O	Thymine	H	O-acyl
CH_3	O-acyl	H	O	Uracil	H	O-acyl
CH_3	O-acyl	H	O	Guanine	H	O-acyl
CH_3	O-acyl	H	O	Cytosine	H	O-acyl
CH_3	O-acyl	H	O	Adenine	H	O-acyl
CH_3	O-acyl	H	O	Hypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	H	O	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	H	O	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	H	O	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	Thymine	H	OH
CH_3	O-acyl	H	O	Uracil	H	OH
CH_3	O-acyl	H	O	Guanine	H	OH
CH_3	O-acyl	H	O	Cytosine	H	OH
CH_3	O-acyl	H	O	Adenine	H	OH
CH_3	O-acyl	H	O	Hypoxanthine	H	OH
CH_3	O-acyl	H	O	5-Fluorouracil	H	OH
CH_3	O-acyl	H	O	8-Fluoroguanine	H	OH
CH_3	O-acyl	H	O	5-Fluorocytosine	H	OH
CH_3	O-acyl	H	O	8-Fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-Fluoroadenine	H	OH
CH_3	O-acyl	H	O	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-Aminoadenine	H	OH
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-N-acetylguanine	H	OH
CH_3	O-acyl	H	O	4-N-acetylcytosine	H	OH
CH_3	O-acyl	H	O	6-N-acetyladenine	H	OH
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	H	O	Thymine	OH	H
CH_3	O-acyl	H	O	Uracil	OH	H
CH_3	O-acyl	H	O	Guanine	OH	H
CH_3	O-acyl	H	O	Cytosine	OH	H
CH_3	O-acyl	H	O	Adenine	OH	H
CH_3	O-acyl	H	O	Hypoxanthine	OH	H
CH_3	O-acyl	H	O	5-Fluorouracil	OH	H
CH_3	O-acyl	H	O	8-Fluoroguanine	OH	H
CH_3	O-acyl	H	O	5-Fluorocytosine	OH	H
CH_3	O-acyl	H	O	8-Fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-Fluoroadenine	OH	H
CH_3	O-acyl	H	O	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	H	O	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	2,8-Difluorohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	O	2-Aminoadenine	OH	H
CH_3	O-acyl	H	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	H	O	2-N-acetylguanine	OH	H
CH_3	O-acyl	H	O	4-N-acetylcytosine	OH	H
CH_3	O-acyl	H	O	6-N-acetyladenine	OH	H
CH_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	F	O	Thymine	F	H
CH_3	O-amino acid	F	O	Uracil	F	H
CH_3	O-amino acid	F	O	Guanine	F	H
CH_3	O-amino acid	F	O	Cytosine	F	H
CH_3	O-amino acid	F	O	Adenine	F	H
CH_3	O-amino acid	F	O	Hypoxanthine	F	H
CH_3	O-amino acid	F	O	5-Fluorouracil	F	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-Aminoadenine	F	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	F	O	Thymine	F	O-amino acid
CH_3	O-amino acid	F	O	Uracil	F	O-amino acid
CH_3	O-amino acid	F	O	Guanine	F	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	F	O	Adenine	F	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	O	Thymine	F	O-acyl
CH_3	O-amino acid	F	O	Uracil	F	O-acyl
CH_3	O-amino acid	F	O	Guanine	F	O-acyl
CH_3	O-amino acid	F	O	Cytosine	F	O-acyl
CH_3	O-amino acid	F	O	Adenine	F	O-acyl
CH_3	O-amino acid	F	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	O	Thymine	F	OH
CH_3	O-amino acid	F	O	Uracil	F	OH
CH_3	O-amino acid	F	O	Guanine	F	OH
CH_3	O-amino acid	F	O	Cytosine	F	OH
CH_3	O-amino acid	F	O	Adenine	F	OH
CH_3	O-amino acid	F	O	Hypoxanthine	F	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	F	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	F	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	F	O	Thymine	Br	H
CH_3	O-amino acid	F	O	Uracil	Br	H
CH_3	O-amino acid	F	O	Guanine	Br	H
CH_3	O-amino acid	F	O	Cytosine	Br	H
CH_3	O-amino acid	F	O	Adenine	Br	H
CH_3	O-amino acid	F	O	Hypoxanthine	Br	H
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	F	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	F	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	F	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	O	Thymine	Br	O-acyl
CH_3	O-amino acid	F	O	Uracil	Br	O-acyl
CH_3	O-amino acid	F	O	Guanine	Br	O-acyl
CH_3	O-amino acid	F	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	F	O	Adenine	Br	O-acyl
CH_3	O-amino acid	F	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	O	Thymine	Br	OH
CH_3	O-amino acid	F	O	Uracil	Br	OH
CH_3	O-amino acid	F	O	Guanine	Br	OH
CH_3	O-amino acid	F	O	Cytosine	Br	OH
CH_3	O-amino acid	F	O	Adenine	Br	OH
CH_3	O-amino acid	F	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	F	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	F	O	Thymine	Cl	H
CH_3	O-amino acid	F	O	Uracil	Cl	H
CH_3	O-amino acid	F	O	Guanine	Cl	H
CH_3	O-amino acid	F	O	Cytosine	Cl	H
CH_3	O-amino acid	F	O	Adenine	Cl	H
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	F	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	F	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	F	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	F	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	F	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	O	Thymine	Cl	OH
CH_3	O-amino acid	F	O	Uracil	Cl	OH
CH_3	O-amino acid	F	O	Guanine	Cl	OH
CH_3	O-amino acid	F	O	Cytosine	Cl	OH
CH_3	O-amino acid	F	O	Adenine	Cl	OH
CH_3	O-amino acid	F	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	O	Thymine	H	H
CH_3	O-amino acid	F	O	Uracil	H	H
CH_3	O-amino acid	F	O	Guanine	H	H
CH_3	O-amino acid	F	O	Cytosine	H	H
CH_3	O-amino acid	F	O	Adenine	H	H
CH_3	O-amino acid	F	O	Hypoxanthine	H	H
CH_3	O-amino acid	F	O	5-Fluorouracil	H	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-Aminoadenine	H	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	F	O	Thymine	H	O-amino acid
CH_3	O-amino acid	F	O	Uracil	H	O-amino acid
CH_3	O-amino acid	F	O	Guanine	H	O-amino acid
CH_3	O-amino acid	F	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	F	O	Adenine	H	O-amino acid
CH_3	O-amino acid	F	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	O	Thymine	H	O-acyl
CH_3	O-amino acid	F	O	Uracil	H	O-acyl
CH_3	O-amino acid	F	O	Guanine	H	O-acyl
CH_3	O-amino acid	F	O	Cytosine	H	O-acyl
CH_3	O-amino acid	F	O	Adenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	O	Thymine	H	OH
CH_3	O-amino acid	F	O	Uracil	H	OH
CH_3	O-amino acid	F	O	Guanine	H	OH
CH_3	O-amino acid	F	O	Cytosine	H	OH
CH_3	O-amino acid	F	O	Adenine	H	OH
CH_3	O-amino acid	F	O	Hypoxanthine	H	OH
CH_3	O-amino acid	F	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	F	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	F	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	F	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylguanine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	F	O	Thymine	OH	H
CH_3	O-amino acid	F	O	Uracil	OH	H
CH_3	O-amino acid	F	O	Guanine	OH	H
CH_3	O-amino acid	F	O	Cytosine	OH	H
CH_3	O-amino acid	F	O	Adenine	OH	H
CH_3	O-amino acid	F	O	Hypoxanthine	OH	H
CH_3	O-amino acid	F	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	F	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	F	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	F	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	F	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	Thymine	F	H
CH_3	O-amino acid	Br	O	Uracil	F	H
CH_3	O-amino acid	Br	O	Guanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	Cytosine	F	H
CH_3	O-amino acid	Br	O	Adenine	F	H
CH_3	O-amino acid	Br	O	Hypoxanthine	F	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Br	O	Thymine	F	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	F	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	F	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	F	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	F	O-acyl
CH_3	O-amino acid	Br	O	Uracil	F	O-acyl
CH_3	O-amino acid	Br	O	Guanine	F	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	F	O-acyl
CH_3	O-amino acid	Br	O	Adenine	F	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	O	Thymine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	Uracil	F	OH
CH_3	O-amino acid	Br	O	Guanine	F	OH
CH_3	O-amino acid	Br	O	Cytosine	F	OH
CH_3	O-amino acid	Br	O	Adenine	F	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	F	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Br	O	Thymine	Br	H
CH_3	O-amino acid	Br	O	Uracil	Br	H
CH_3	O-amino acid	Br	O	Guanine	Br	H
CH_3	O-amino acid	Br	O	Cytosine	Br	H
CH_3	O-amino acid	Br	O	Adenine	Br	H
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Br	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	Br	O-acyl
CH_3	O-amino acid	Br	O	Uracil	Br	O-acyl
CH_3	O-amino acid	Br	O	Guanine	Br	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	Adenine	Br	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	O	Thymine	Br	OH
CH_3	O-amino acid	Br	O	Uracil	Br	OH
CH_3	O-amino acid	Br	O	Guanine	Br	OH
CH_3	O-amino acid	Br	O	Cytosine	Br	OH
CH_3	O-amino acid	Br	O	Adenine	Br	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	O	Thymine	Cl	H
CH_3	O-amino acid	Br	O	Uracil	Cl	H
CH_3	O-amino acid	Br	O	Guanine	Cl	H
CH_3	O-amino acid	Br	O	Cytosine	Cl	H
CH_3	O-amino acid	Br	O	Adenine	Cl	H
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	Br	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	O	Thymine	Cl	OH
CH_3	O-amino acid	Br	O	Uracil	Cl	OH
CH_3	O-amino acid	Br	O	Guanine	Cl	OH
CH_3	O-amino acid	Br	O	Cytosine	Cl	OH
CH_3	O-amino acid	Br	O	Adenine	Cl	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	O	Thymine	H	H
CH_3	O-amino acid	Br	O	Uracil	H	H
CH_3	O-amino acid	Br	O	Guanine	H	H
CH_3	O-amino acid	Br	O	Cytosine	H	H
CH_3	O-amino acid	Br	O	Adenine	H	H
CH_3	O-amino acid	Br	O	Hypoxanthine	H	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Br	O	Thymine	H	O-amino acid
CH_3	O-amino acid	Br	O	Uracil	H	O-amino acid
CH_3	O-amino acid	Br	O	Guanine	H	O-amino acid
CH_3	O-amino acid	Br	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	Adenine	H	O-amino acid
CH_3	O-amino acid	Br	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	O	Thymine	H	O-acyl
CH_3	O-amino acid	Br	O	Uracil	H	O-acyl
CH_3	O-amino acid	Br	O	Guanine	H	O-acyl
CH_3	O-amino acid	Br	O	Cytosine	H	O-acyl
CH_3	O-amino acid	Br	O	Adenine	H	O-acyl
CH_3	O-amino acid	Br	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	O	Thymine	H	OH
CH_3	O-amino acid	Br	O	Uracil	H	OH
CH_3	O-amino acid	Br	O	Guanine	H	OH
CH_3	O-amino acid	Br	O	Cytosine	H	OH
CH_3	O-amino acid	Br	O	Adenine	H	OH
CH_3	O-amino acid	Br	O	Hypoxanthine	H	OH
CH_3	O-amino acid	Br	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	Br	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Br	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Br	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Br	O	Thymine	OH	H
CH_3	O-amino acid	Br	O	Uracil	OH	H
CH_3	O-amino acid	Br	O	Guanine	OH	H
CH_3	O-amino acid	Br	O	Cytosine	OH	H
CH_3	O-amino acid	Br	O	Adenine	OH	H
CH_3	O-amino acid	Br	O	Hypoxanthine	OH	H
CH_3	O-amino acid	Br	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	Br	O	8-Fluoroguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Br	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Br	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	Thymine	F	H
CH_3	O-amino acid	Cl	O	Uracil	F	H
CH_3	O-amino acid	Cl	O	Guanine	F	H
CH_3	O-amino acid	Cl	O	Cytosine	F	H
CH_3	O-amino acid	Cl	O	Adenine	F	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Cl	O	Thymine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	F	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Adenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	F	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	F	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	F	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	F	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	O	Thymine	F	OH
CH_3	O-amino acid	Cl	O	Uracil	F	OH
CH_3	O-amino acid	Cl	O	Guanine	F	OH
CH_3	O-amino acid	Cl	O	Cytosine	F	OH
CH_3	O-amino acid	Cl	O	Adenine	F	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	O	Thymine	Br	H
CH_3	O-amino acid	Cl	O	Uracil	Br	H
CH_3	O-amino acid	Cl	O	Guanine	Br	H
CH_3	O-amino acid	Cl	O	Cytosine	Br	H
CH_3	O-amino acid	Cl	O	Adenine	Br	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	Br	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	O	Thymine	Br	OH
CH_3	O-amino acid	Cl	O	Uracil	Br	OH
CH_3	O-amino acid	Cl	O	Guanine	Br	OH
CH_3	O-amino acid	Cl	O	Cytosine	Br	OH
CH_3	O-amino acid	Cl	O	Adenine	Br	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	O	Thymine	Cl	H
CH_3	O-amino acid	Cl	O	Uracil	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	Guanine	Cl	H
CH_3	O-amino acid	Cl	O	Cytosine	Cl	H
CH_3	O-amino acid	Cl	O	Adenine	Cl	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	Thymine	Cl	OH
CH_3	O-amino acid	Cl	O	Uracil	Cl	OH
CH_3	O-amino acid	Cl	O	Guanine	Cl	OH
CH_3	O-amino acid	Cl	O	Cytosine	Cl	OH
CH_3	O-amino acid	Cl	O	Adenine	Cl	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	O	Thymine	H	H
CH_3	O-amino acid	Cl	O	Uracil	H	H
CH_3	O-amino acid	Cl	O	Guanine	H	H
CH_3	O-amino acid	Cl	O	Cytosine	H	H
CH_3	O-amino acid	Cl	O	Adenine	H	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Cl	O	Thymine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Uracil	H	O-amino acid
CH_3	O-amino acid	Cl	O	Guanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Adenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	O	Thymine	H	O-acyl
CH_3	O-amino acid	Cl	O	Uracil	H	O-acyl
CH_3	O-amino acid	Cl	O	Guanine	H	O-acyl
CH_3	O-amino acid	Cl	O	Cytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	Adenine	H	O-acyl
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	O	Thymine	H	OH
CH_3	O-amino acid	Cl	O	Uracil	H	OH
CH_3	O-amino acid	Cl	O	Guanine	H	OH
CH_3	O-amino acid	Cl	O	Cytosine	H	OH
CH_3	O-amino acid	Cl	O	Adenine	H	OH
CH_3	O-amino acid	Cl	O	Hypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	O	Thymine	OH	H
CH_3	O-amino acid	Cl	O	Uracil	OH	H
CH_3	O-amino acid	Cl	O	Guanine	OH	H
CH_3	O-amino acid	Cl	O	Cytosine	OH	H
CH_3	O-amino acid	Cl	O	Adenine	OH	H
CH_3	O-amino acid	Cl	O	Hypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	Cl	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	Cl	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Cl	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Cl	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	H	O	Thymine	F	H
CH_3	O-amino acid	H	O	Uracil	F	H
CH_3	O-amino acid	H	O	Guanine	F	H
CH_3	O-amino acid	H	O	Cytosine	F	H
CH_3	O-amino acid	H	O	Adenine	F	H
CH_3	O-amino acid	H	O	Hypoxanthine	F	H
CH_3	O-amino acid	H	O	5-Fluorouracil	F	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-Aminoadenine	F	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	H	O	Thymine	F	O-amino acid
CH_3	O-amino acid	H	O	Uracil	F	O-amino acid
CH_3	O-amino acid	H	O	Guanine	F	O-amino acid
CH_3	O-amino acid	H	O	Cytosine	F	O-amino acid
CH_3	O-amino acid	H	O	Adenine	F	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	O	Thymine	F	O-acyl
CH_3	O-amino acid	H	O	Uracil	F	O-acyl
CH_3	O-amino acid	H	O	Guanine	F	O-acyl
CH_3	O-amino acid	H	O	Cytosine	F	O-acyl
CH_3	O-amino acid	H	O	Adenine	F	O-acyl
CH_3	O-amino acid	H	O	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	O	Thymine	F	OH
CH_3	O-amino acid	H	O	Uracil	F	OH
CH_3	O-amino acid	H	O	Guanine	F	OH
CH_3	O-amino acid	H	O	Cytosine	F	OH
CH_3	O-amino acid	H	O	Adenine	F	OH
CH_3	O-amino acid	H	O	Hypoxanthine	F	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	F	OH
CH_3	O-amino acid	H	O	8-Fluoroguanine	F	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	F	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	F	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	F	OH
CH_3	O-amino acid	H	O	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	H	O	Thymine	Br	H
CH_3	O-amino acid	H	O	Uracil	Br	H
CH_3	O-amino acid	H	O	Guanine	Br	H
CH_3	O-amino acid	H	O	Cytosine	Br	H
CH_3	O-amino acid	H	O	Adenine	Br	H
CH_3	O-amino acid	H	O	Hypoxanthine	Br	H
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	H	O	Thymine	Br	O-amino acid
CH_3	O-amino acid	H	O	Uracil	Br	O-amino acid
CH_3	O-amino acid	H	O	Guanine	Br	O-amino acid
CH_3	O-amino acid	H	O	Cytosine	Br	O-amino acid
CH_3	O-amino acid	H	O	Adenine	Br	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	O	Thymine	Br	O-acyl
CH_3	O-amino acid	H	O	Uracil	Br	O-acyl
CH_3	O-amino acid	H	O	Guanine	Br	O-acyl
CH_3	O-amino acid	H	O	Cytosine	Br	O-acyl
CH_3	O-amino acid	H	O	Adenine	Br	O-acyl
CH_3	O-amino acid	H	O	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	O	Thymine	Br	OH
CH_3	O-amino acid	H	O	Uracil	Br	OH
CH_3	O-amino acid	H	O	Guanine	Br	OH
CH_3	O-amino acid	H	O	Cytosine	Br	OH
CH_3	O-amino acid	H	O	Adenine	Br	OH
CH_3	O-amino acid	H	O	Hypoxanthine	Br	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	Br	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	H	O	Thymine	Cl	H
CH_3	O-amino acid	H	O	Uracil	Cl	H
CH_3	O-amino acid	H	O	Guanine	Cl	H
CH_3	O-amino acid	H	O	Cytosine	Cl	H
CH_3	O-amino acid	H	O	Adenine	Cl	H
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	H
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	H	O	Thymine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Uracil	Cl	O-amino acid
CH_3	O-amino acid	H	O	Guanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Adenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	O	Thymine	Cl	O-acyl
CH_3	O-amino acid	H	O	Uracil	Cl	O-acyl
CH_3	O-amino acid	H	O	Guanine	Cl	O-acyl
CH_3	O-amino acid	H	O	Cytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	O	Thymine	Cl	OH
CH_3	O-amino acid	H	O	Uracil	Cl	OH
CH_3	O-amino acid	H	O	Guanine	Cl	OH
CH_3	O-amino acid	H	O	Cytosine	Cl	OH
CH_3	O-amino acid	H	O	Adenine	Cl	OH
CH_3	O-amino acid	H	O	Hypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	H	O	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	O	Thymine	H	H
CH_3	O-amino acid	H	O	Uracil	H	H
CH_3	O-amino acid	H	O	Guanine	H	H
CH_3	O-amino acid	H	O	Cytosine	H	H
CH_3	O-amino acid	H	O	Adenine	H	H
CH_3	O-amino acid	H	O	Hypoxanthine	H	H
CH_3	O-amino acid	H	O	5-Fluorouracil	H	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-Aminoadenine	H	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	H	O	Thymine	H	O-amino acid
CH_3	O-amino acid	H	O	Uracil	H	O-amino acid
CH_3	O-amino acid	H	O	Guanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	Cytosine	H	O-amino acid
CH_3	O-amino acid	H	O	Adenine	H	O-amino acid
CH_3	O-amino acid	H	O	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	O	Thymine	H	O-acyl
CH_3	O-amino acid	H	O	Uracil	H	O-acyl
CH_3	O-amino acid	H	O	Guanine	H	O-acyl
CH_3	O-amino acid	H	O	Cytosine	H	O-acyl
CH_3	O-amino acid	H	O	Adenine	H	O-acyl
CH_3	O-amino acid	H	O	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	O	Thymine	H	OH
CH_3	O-amino acid	H	O	Uracil	H	OH
CH_3	O-amino acid	H	O	Guanine	H	OH
CH_3	O-amino acid	H	O	Cytosine	H	OH
CH_3	O-amino acid	H	O	Adenine	H	OH
CH_3	O-amino acid	H	O	Hypoxanthine	H	OH
CH_3	O-amino acid	H	O	5-Fluorouracil	H	OH
CH_3	O-amino acid	H	O	8-Fluoroguanine	H	OH
CH_3	O-amino acid	H	O	5-Fluorocytosine	H	OH
CH_3	O-amino acid	H	O	8-Fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-Fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-Aminoadenine	H	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylguanine	H	OH
CH_3	O-amino acid	H	O	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyladenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	H	O	Thymine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	O	Uracil	OH	H
CH_3	O-amino acid	H	O	Guanine	OH	H
CH_3	O-amino acid	H	O	Cytosine	OH	H
CH_3	O-amino acid	H	O	Adenine	OH	H
CH_3	O-amino acid	H	O	Hypoxanthine	OH	H
CH_3	O-amino acid	H	O	5-Fluorouracil	OH	H
CH_3	O-amino acid	H	O	8-Fluoroguanine	OH	H
CH_3	O-amino acid	H	O	5-Fluorocytosine	OH	H
CH_3	O-amino acid	H	O	8-Fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-Fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-Aminoadenine	OH	H
CH_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylguanine	OH	H
CH_3	O-amino acid	H	O	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyladenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	OH	H
CH_3	OH	F	O	Thymine	F	O-amino acid
CH_3	OH	F	O	Uracil	F	O-amino acid
CH_3	OH	F	O	Guanine	F	O-amino acid
CH_3	OH	F	O	Cytosine	F	O-amino acid
CH_3	OH	F	O	Adenine	F	O-amino acid
CH_3	OH	F	O	Hypoxanthine	F	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	F	O	Thymine	F	O-acyl
CH_3	OH	F	O	Uracil	F	O-acyl
CH_3	OH	F	O	Guanine	F	O-acyl
CH_3	OH	F	O	Cytosine	F	O-acyl
CH_3	OH	F	O	Adenine	F	O-acyl
CH_3	OH	F	O	Hypoxanthine	F	O-acyl
CH_3	OH	F	O	5-Fluorouracil	F	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	2-Aminoadenine	F	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	F	O	Thymine	Br	O-amino acid
CH_3	OH	F	O	Uracil	Br	O-amino acid
CH_3	OH	F	O	Guanine	Br	O-amino acid
CH_3	OH	F	O	Cytosine	Br	O-amino acid
CH_3	OH	F	O	Adenine	Br	O-amino acid
CH_3	OH	F	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	F	O	Thymine	Br	O-acyl
CH_3	OH	F	O	Uracil	Br	O-acyl
CH_3	OH	F	O	Guanine	Br	O-acyl
CH_3	OH	F	O	Cytosine	Br	O-acyl
CH_3	OH	F	O	Adenine	Br	O-acyl
CH_3	OH	F	O	Hypoxanthine	Br	O-acyl
CH_3	OH	F	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	F	O	Thymine	Cl	O-amino acid
CH_3	OH	F	O	Uracil	Cl	O-amino acid
CH_3	OH	F	O	Guanine	Cl	O-amino acid
CH_3	OH	F	O	Cytosine	Cl	O-amino acid
CH_3	OH	F	O	Adenine	Cl	O-amino acid
CH_3	OH	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	O	Thymine	Cl	O-acyl
CH_3	OH	F	O	Uracil	Cl	O-acyl
CH_3	OH	F	O	Guanine	Cl	O-acyl
CH_3	OH	F	O	Cytosine	Cl	O-acyl
CH_3	OH	F	O	Adenine	Cl	O-acyl
CH_3	OH	F	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	F	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	F	O	Thymine	H	O-amino acid
CH_3	OH	F	O	Uracil	H	O-amino acid
CH_3	OH	F	O	Guanine	H	O-amino acid
CH_3	OH	F	O	Cytosine	H	O-amino acid
CH_3	OH	F	O	Adenine	H	O-amino acid
CH_3	OH	F	O	Hypoxanthine	H	O-amino acid
CH_3	OH	F	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2,8-Difluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	F	O	Thymine	H	O-acyl
CH_3	OH	F	O	Uracil	H	O-acyl
CH_3	OH	F	O	Guanine	H	O-acyl
CH_3	OH	F	O	Cytosine	H	O-acyl
CH_3	OH	F	O	Adenine	H	O-acyl
CH_3	OH	F	O	Hypoxanthine	H	O-acyl
CH_3	OH	F	O	5-Fluorouracil	H	O-acyl
CH_3	OH	F	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	F	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	F	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-Aminoadenine	H	O-acyl
CH_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	F	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Br	O	Thymine	F	O-amino acid
CH_3	OH	Br	O	Uracil	F	O-amino acid
CH_3	OH	Br	O	Guanine	F	O-amino acid
CH_3	OH	Br	O	Cytosine	F	O-amino acid
CH_3	OH	Br	O	Adenine	F	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	F	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Br	O	Thymine	F	O-acyl
CH_3	OH	Br	O	Uracil	F	O-acyl
CH_3	OH	Br	O	Guanine	F	O-acyl
CH_3	OH	Br	O	Cytosine	F	O-acyl
CH_3	OH	Br	O	Adenine	F	O-acyl
CH_3	OH	Br	O	Hypoxanthine	F	O-acyl
CH_3	OH	Br	O	5-Fluorouracil	F	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	F	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Br	O	Thymine	Br	O-amino acid
CH_3	OH	Br	O	Uracil	Br	O-amino acid
CH_3	OH	Br	O	Guanine	Br	O-amino acid
CH_3	OH	Br	O	Cytosine	Br	O-amino acid
CH_3	OH	Br	O	Adenine	Br	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	O	Thymine	Br	O-acyl
CH_3	OH	Br	O	Uracil	Br	O-acyl
CH_3	OH	Br	O	Guanine	Br	O-acyl
CH_3	OH	Br	O	Cytosine	Br	O-acyl
CH_3	OH	Br	O	Adenine	Br	O-acyl
CH_3	OH	Br	O	Hypoxanthine	Br	O-acyl
CH_3	OH	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Br	O	Thymine	Cl	O-amino acid
CH_3	OH	Br	O	Uracil	Cl	O-amino acid
CH_3	OH	Br	O	Guanine	Cl	O-amino acid
CH_3	OH	Br	O	Cytosine	Cl	O-amino acid
CH_3	OH	Br	O	Adenine	Cl	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	O	Thymine	Cl	O-acyl
CH_3	OH	Br	O	Uracil	Cl	O-acyl
CH_3	OH	Br	O	Guanine	Cl	O-acyl
CH_3	OH	Br	O	Cytosine	Cl	O-acyl
CH_3	OH	Br	O	Adenine	Cl	O-acyl
CH_3	OH	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	O	Thymine	H	O-amino acid
CH_3	OH	Br	O	Uracil	H	O-amino acid
CH_3	OH	Br	O	Guanine	H	O-amino acid
CH_3	OH	Br	O	Cytosine	H	O-amino acid
CH_3	OH	Br	O	Adenine	H	O-amino acid
CH_3	OH	Br	O	Hypoxanthine	H	O-amino acid
CH_3	OH	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Br	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Br	O	Thymine	H	O-acyl
CH_3	OH	Br	O	Uracil	H	O-acyl
CH_3	OH	Br	O	Guanine	H	O-acyl
CH_3	OH	Br	O	Cytosine	H	O-acyl
CH_3	OH	Br	O	Adenine	H	O-acyl
CH_3	OH	Br	O	Hypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	O	5-Fluorouracil	H	O-acyl
CH_3	OH	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-Aminoadenine	H	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	Thymine	F	O-amino acid
CH_3	OH	Cl	O	Uracil	F	O-amino acid
CH_3	OH	Cl	O	Guanine	F	O-amino acid
CH_3	OH	Cl	O	Cytosine	F	O-amino acid
CH_3	OH	Cl	O	Adenine	F	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	O	Thymine	F	O-acyl
CH_3	OH	Cl	O	Uracil	F	O-acyl
CH_3	OH	Cl	O	Guanine	F	O-acyl
CH_3	OH	Cl	O	Cytosine	F	O-acyl
CH_3	OH	Cl	O	Adenine	F	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	F	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Cl	O	Thymine	Br	O-amino acid
CH_3	OH	Cl	O	Uracil	Br	O-amino acid
CH_3	OH	Cl	O	Guanine	Br	O-amino acid
CH_3	OH	Cl	O	Cytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	Adenine	Br	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	O	Thymine	Br	O-acyl
CH_3	OH	Cl	O	Uracil	Br	O-acyl
CH_3	OH	Cl	O	Guanine	Br	O-acyl
CH_3	OH	Cl	O	Cytosine	Br	O-acyl
CH_3	OH	Cl	O	Adenine	Br	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Cl	O	Thymine	Cl	O-amino acid
CH_3	OH	Cl	O	Uracil	Cl	O-amino acid
CH_3	OH	Cl	O	Guanine	Cl	O-amino acid
CH_3	OH	Cl	O	Cytosine	Cl	O-amino acid
CH_3	OH	Cl	O	Adenine	Cl	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	O	Thymine	Cl	O-acyl
CH_3	OH	Cl	O	Uracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	Guanine	Cl	O-acyl
CH_3	OH	Cl	O	Cytosine	Cl	O-acyl
CH_3	OH	Cl	O	Adenine	Cl	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	O	Thymine	H	O-amino acid
CH_3	OH	Cl	O	Uracil	H	O-amino acid
CH_3	OH	Cl	O	Guanine	H	O-amino acid
CH_3	OH	Cl	O	Cytosine	H	O-amino acid
CH_3	OH	Cl	O	Adenine	H	O-amino acid
CH_3	OH	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	O	Thymine	H	O-acyl
CH_3	OH	Cl	O	Uracil	H	O-acyl
CH_3	OH	Cl	O	Guanine	H	O-acyl
CH_3	OH	Cl	O	Cytosine	H	O-acyl
CH_3	OH	Cl	O	Adenine	H	O-acyl
CH_3	OH	Cl	O	Hypoxanthine	H	O-acyl
CH_3	OH	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	OH	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	Thymine	F	O-amino acid
CH_3	OH	H	O	Uracil	F	O-amino acid
CH_3	OH	H	O	Guanine	F	O-amino acid
CH_3	OH	H	O	Cytosine	F	O-amino acid
CH_3	OH	H	O	Adenine	F	O-amino acid
CH_3	OH	H	O	Hypoxanthine	F	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	F	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	F	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	H	O	Thymine	F	O-acyl
CH_3	OH	H	O	Uracil	F	O-acyl
CH_3	OH	H	O	Guanine	F	O-acyl
CH_3	OH	H	O	Cytosine	F	O-acyl
CH_3	OH	H	O	Adenine	F	O-acyl
CH_3	OH	H	O	Hypoxanthine	F	O-acyl
CH_3	OH	H	O	5-Fluorouracil	F	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	F	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	F	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	F	O-acyl
CH_3	OH	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2-Aminoadenine	F	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	F	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	F	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	H	O	Thymine	Br	O-amino acid
CH_3	OH	H	O	Uracil	Br	O-amino acid
CH_3	OH	H	O	Guanine	Br	O-amino acid
CH_3	OH	H	O	Cytosine	Br	O-amino acid
CH_3	OH	H	O	Adenine	Br	O-amino acid
CH_3	OH	H	O	Hypoxanthine	Br	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	H	O	Thymine	Br	O-acyl
CH_3	OH	H	O	Uracil	Br	O-acyl
CH_3	OH	H	O	Guanine	Br	O-acyl
CH_3	OH	H	O	Cytosine	Br	O-acyl
CH_3	OH	H	O	Adenine	Br	O-acyl
CH_3	OH	H	O	Hypoxanthine	Br	O-acyl
CH_3	OH	H	O	5-Fluorouracil	Br	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	Br	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-Aminoadenine	Br	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	H	O	Thymine	Cl	O-amino acid
CH_3	OH	H	O	Uracil	Cl	O-amino acid
CH_3	OH	H	O	Guanine	Cl	O-amino acid
CH_3	OH	H	O	Cytosine	Cl	O-amino acid
CH_3	OH	H	O	Adenine	Cl	O-amino acid
CH_3	OH	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	O	Thymine	Cl	O-acyl
CH_3	OH	H	O	Uracil	Cl	O-acyl
CH_3	OH	H	O	Guanine	Cl	O-acyl
CH_3	OH	H	O	Cytosine	Cl	O-acyl
CH_3	OH	H	O	Adenine	Cl	O-acyl
CH_3	OH	H	O	Hypoxanthine	Cl	O-acyl
CH_3	OH	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	H	O	Thymine	H	O-amino acid
CH_3	OH	H	O	Uracil	H	O-amino acid
CH_3	OH	H	O	Guanine	H	O-amino acid
CH_3	OH	H	O	Cytosine	H	O-amino acid
CH_3	OH	H	O	Adenine	H	O-amino acid
CH_3	OH	H	O	Hypoxanthine	H	O-amino acid
CH_3	OH	H	O	5-Fluorouracil	H	O-amino acid
CH_3	OH	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	OH	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	OH	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-Aminoadenine	H	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	OH	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	H	O	Thymine	H	O-acyl
CH_3	OH	H	O	Uracil	H	O-acyl
CH_3	OH	H	O	Guanine	H	O-acyl
CH_3	OH	H	O	Cytosine	H	O-acyl
CH_3	OH	H	O	Adenine	H	O-acyl
CH_3	OH	H	O	Hypoxanthine	H	O-acyl
CH_3	OH	H	O	5-Fluorouracil	H	O-acyl
CH_3	OH	H	O	8-Fluoroguanine	H	O-acyl
CH_3	OH	H	O	5-Fluorocytosine	H	O-acyl
CH_3	OH	H	O	8-Fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-Fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-Aminoadenine	H	O-acyl
CH_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-N-acetylguanine	H	O-acyl
CH_3	OH	H	O	4-N-acetylcytosine	H	O-acyl
CH_3	OH	H	O	6-N-acetyladenine	H	O-acyl
CH_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	F	O	Thymine	F	O-amino acid
CH_3	H	F	O	Uracil	F	O-amino acid
CH_3	H	F	O	Guanine	F	O-amino acid
CH_3	H	F	O	Cytosine	F	O-amino acid
CH_3	H	F	O	Adenine	F	O-amino acid
CH_3	H	F	O	Hypoxanthine	F	O-amino acid
CH_3	H	F	O	5-Fluorouracil	F	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	F	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-Aminoadenine	F	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	F	O	Thymine	F	O-acyl
CH_3	H	F	O	Uracil	F	O-acyl
CH_3	H	F	O	Guanine	F	O-acyl
CH_3	H	F	O	Cytosine	F	O-acyl
CH_3	H	F	O	Adenine	F	O-acyl
CH_3	H	F	O	Hypoxanthine	F	O-acyl
CH_3	H	F	O	5-Fluorouracil	F	O-acyl
CH_3	H	F	O	8-Fluoroguanine	F	O-acyl
CH_3	H	F	O	5-Fluorocytosine	F	O-acyl
CH_3	H	F	O	8-Fluoroadenine	F	O-acyl
CH_3	H	F	O	2-Fluoroadenine	F	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2-Aminoadenine	F	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	F	O	2-N-acetylguanine	F	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	F	O	6-N-acetyladenine	F	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	F	O	Thymine	Br	O-amino acid
CH_3	H	F	O	Uracil	Br	O-amino acid
CH_3	H	F	O	Guanine	Br	O-amino acid
CH_3	H	F	O	Cytosine	Br	O-amino acid
CH_3	H	F	O	Adenine	Br	O-amino acid
CH_3	H	F	O	Hypoxanthine	Br	O-amino acid
CH_3	H	F	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	F	O	Thymine	Br	O-acyl
CH_3	H	F	O	Uracil	Br	O-acyl
CH_3	H	F	O	Guanine	Br	O-acyl
CH_3	H	F	O	Cytosine	Br	O-acyl
CH_3	H	F	O	Adenine	Br	O-acyl
CH_3	H	F	O	Hypoxanthine	Br	O-acyl
CH_3	H	F	O	5-Fluorouracil	Br	O-acyl
CH_3	H	F	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	F	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	F	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-Aminoadenine	Br	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	F	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	F	O	Thymine	Cl	O-amino acid
CH_3	H	F	O	Uracil	Cl	O-amino acid
CH_3	H	F	O	Guanine	Cl	O-amino acid
CH_3	H	F	O	Cytosine	Cl	O-amino acid
CH_3	H	F	O	Adenine	Cl	O-amino acid
CH_3	H	F	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	F	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	F	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	F	O	Thymine	Cl	O-acyl
CH_3	H	F	O	Uracil	Cl	O-acyl
CH_3	H	F	O	Guanine	Cl	O-acyl
CH_3	H	F	O	Cytosine	Cl	O-acyl
CH_3	H	F	O	Adenine	Cl	O-acyl
CH_3	H	F	O	Hypoxanthine	Cl	O-acyl
CH_3	H	F	O	5-Fluorouracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	F	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	F	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	F	O	Thymine	H	O-amino acid
CH_3	H	F	O	Uracil	H	O-amino acid
CH_3	H	F	O	Guanine	H	O-amino acid
CH_3	H	F	O	Cytosine	H	O-amino acid
CH_3	H	F	O	Adenine	H	O-amino acid
CH_3	H	F	O	Hypoxanthine	H	O-amino acid
CH_3	H	F	O	5-Fluorouracil	H	O-amino acid
CH_3	H	F	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	F	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	F	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	F	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	F	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-Aminoadenine	H	O-amino acid
CH_3	H	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	F	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	F	O	6-N-acetyladenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	F	O	Thymine	H	O-acyl
CH_3	H	F	O	Uracil	H	O-acyl
CH_3	H	F	O	Guanine	H	O-acyl
CH_3	H	F	O	Cytosine	H	O-acyl
CH_3	H	F	O	Adenine	H	O-acyl
CH_3	H	F	O	Hypoxanthine	H	O-acyl
CH_3	H	F	O	5-Fluorouracil	H	O-acyl
CH_3	H	F	O	8-Fluoroguanine	H	O-acyl
CH_3	H	F	O	5-Fluorocytosine	H	O-acyl
CH_3	H	F	O	8-Fluoroadenine	H	O-acyl
CH_3	H	F	O	2-Fluoroadenine	H	O-acyl
CH_3	H	F	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	F	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2-Aminoadenine	H	O-acyl
CH_3	H	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	F	O	2-N-acetylguanine	H	O-acyl
CH_3	H	F	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	F	O	6-N-acetyladenine	H	O-acyl
CH_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Br	O	Thymine	F	O-amino acid
CH_3	H	Br	O	Uracil	F	O-amino acid
CH_3	H	Br	O	Guanine	F	O-amino acid
CH_3	H	Br	O	Cytosine	F	O-amino acid
CH_3	H	Br	O	Adenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	Hypoxanthine	F	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	F	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	F	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Br	O	Thymine	F	O-acyl
CH_3	H	Br	O	Uracil	F	O-acyl
CH_3	H	Br	O	Guanine	F	O-acyl
CH_3	H	Br	O	Cytosine	F	O-acyl
CH_3	H	Br	O	Adenine	F	O-acyl
CH_3	H	Br	O	Hypoxanthine	F	O-acyl
CH_3	H	Br	O	5-Fluorouracil	F	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	F	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	F	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	F	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-Aminoadenine	F	O-acyl
CH_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	F	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Br	O	Thymine	Br	O-amino acid
CH_3	H	Br	O	Uracil	Br	O-amino acid
CH_3	H	Br	O	Guanine	Br	O-amino acid
CH_3	H	Br	O	Cytosine	Br	O-amino acid
CH_3	H	Br	O	Adenine	Br	O-amino acid
CH_3	H	Br	O	Hypoxanthine	Br	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Br	O	Thymine	Br	O-acyl
CH_3	H	Br	O	Uracil	Br	O-acyl
CH_3	H	Br	O	Guanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	Cytosine	Br	O-acyl
CH_3	H	Br	O	Adenine	Br	O-acyl
CH_3	H	Br	O	Hypoxanthine	Br	O-acyl
CH_3	H	Br	O	5-Fluorouracil	Br	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-Aminoadenine	Br	O-acyl
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	Br	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Br	O	Thymine	Cl	O-amino acid
CH_3	H	Br	O	Uracil	Cl	O-amino acid
CH_3	H	Br	O	Guanine	Cl	O-amino acid
CH_3	H	Br	O	Cytosine	Cl	O-amino acid
CH_3	H	Br	O	Adenine	Cl	O-amino acid
CH_3	H	Br	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	O	Thymine	Cl	O-acyl
CH_3	H	Br	O	Uracil	Cl	O-acyl
CH_3	H	Br	O	Guanine	Cl	O-acyl
CH_3	H	Br	O	Cytosine	Cl	O-acyl
CH_3	H	Br	O	Adenine	Cl	O-acyl
CH_3	H	Br	O	Hypoxanthine	Cl	O-acyl
CH_3	H	Br	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	Br	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Br	O	Thymine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	Uracil	H	O-amino acid
CH_3	H	Br	O	Guanine	H	O-amino acid
CH_3	H	Br	O	Cytosine	H	O-amino acid
CH_3	H	Br	O	Adenine	H	O-amino acid
CH_3	H	Br	O	Hypoxanthine	H	O-amino acid
CH_3	H	Br	O	5-Fluorouracil	H	O-amino acid
CH_3	H	Br	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	Br	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	Br	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-Aminoadenine	H	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	Br	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Br	O	Thymine	H	O-acyl
CH_3	H	Br	O	Uracil	H	O-acyl
CH_3	H	Br	O	Guanine	H	O-acyl
CH_3	H	Br	O	Cytosine	H	O-acyl
CH_3	H	Br	O	Adenine	H	O-acyl
CH_3	H	Br	O	Hypoxanthine	H	O-acyl
CH_3	H	Br	O	5-Fluorouracil	H	O-acyl
CH_3	H	Br	O	8-Fluoroguanine	H	O-acyl
CH_3	H	Br	O	5-Fluorocytosine	H	O-acyl
CH_3	H	Br	O	8-Fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-Fluoroadenine	H	O-acyl
CH_3	H	Br	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Br	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-Aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-N-acetylguanine	H	O-acyl
CH_3	H	Br	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	Br	O	6-N-acetyladenine	H	O-acyl
CH_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Cl	O	Thymine	F	O-amino acid
CH_3	H	Cl	O	Uracil	F	O-amino acid
CH_3	H	Cl	O	Guanine	F	O-amino acid
CH_3	H	Cl	O	Cytosine	F	O-amino acid
CH_3	H	Cl	O	Adenine	F	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	F	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	F	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	F	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Cl	O	Thymine	F	O-acyl
CH_3	H	Cl	O	Uracil	F	O-acyl
CH_3	H	Cl	O	Guanine	F	O-acyl
CH_3	H	Cl	O	Cytosine	F	O-acyl
CH_3	H	Cl	O	Adenine	F	O-acyl
CH_3	H	Cl	O	Hypoxanthine	F	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	F	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	F	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	F	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	F	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	F	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Cl	O	Thymine	Br	O-amino acid
CH_3	H	Cl	O	Uracil	Br	O-amino acid
CH_3	H	Cl	O	Guanine	Br	O-amino acid
CH_3	H	Cl	O	Cytosine	Br	O-amino acid
CH_3	H	Cl	O	Adenine	Br	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	O	Thymine	Br	O-acyl
CH_3	H	Cl	O	Uracil	Br	O-acyl
CH_3	H	Cl	O	Guanine	Br	O-acyl
CH_3	H	Cl	O	Cytosine	Br	O-acyl
CH_3	H	Cl	O	Adenine	Br	O-acyl
CH_3	H	Cl	O	Hypoxanthine	Br	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	Br	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	Br	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Cl	O	Thymine	Cl	O-amino acid
CH_3	H	Cl	O	Uracil	Cl	O-amino acid
CH_3	H	Cl	O	Guanine	Cl	O-amino acid
CH_3	H	Cl	O	Cytosine	Cl	O-amino acid
CH_3	H	Cl	O	Adenine	Cl	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	O	Thymine	Cl	O-acyl
CH_3	H	Cl	O	Uracil	Cl	O-acyl
CH_3	H	Cl	O	Guanine	Cl	O-acyl
CH_3	H	Cl	O	Cytosine	Cl	O-acyl
CH_3	H	Cl	O	Adenine	Cl	O-acyl
CH_3	H	Cl	O	Hypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	O	Thymine	H	O-amino acid
CH_3	H	Cl	O	Uracil	H	O-amino acid
CH_3	H	Cl	O	Guanine	H	O-amino acid
CH_3	H	Cl	O	Cytosine	H	O-amino acid
CH_3	H	Cl	O	Adenine	H	O-amino acid
CH_3	H	Cl	O	Hypoxanthine	H	O-amino acid
CH_3	H	Cl	O	5-Fluorouracil	H	O-amino acid
CH_3	H	Cl	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	Cl	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	Cl	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-Aminoadenine	H	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	Cl	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Cl	O	Thymine	H	O-acyl
CH_3	H	Cl	O	Uracil	H	O-acyl
CH_3	H	Cl	O	Guanine	H	O-acyl
CH_3	H	Cl	O	Cytosine	H	O-acyl
CH_3	H	Cl	O	Adenine	H	O-acyl
CH_3	H	Cl	O	Hypoxanthine	H	O-acyl
CH_3	H	Cl	O	5-Fluorouracil	H	O-acyl
CH_3	H	Cl	O	8-Fluoroguanine	H	O-acyl
CH_3	H	Cl	O	5-Fluorocytosine	H	O-acyl
CH_3	H	Cl	O	8-Fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-Fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-Aminoadenine	H	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylguanine	H	O-acyl
CH_3	H	Cl	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyladenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	H	O	Thymine	F	O-amino acid
CH_3	H	H	O	Uracil	F	O-amino acid
CH_3	H	H	O	Guanine	F	O-amino acid
CH_3	H	H	O	Cytosine	F	O-amino acid
CH_3	H	H	O	Adenine	F	O-amino acid
CH_3	H	H	O	Hypoxanthine	F	O-amino acid
CH_3	H	H	O	5-Fluorouracil	F	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-Aminoadenine	F	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	H	O	Thymine	F	O-acyl
CH_3	H	H	O	Uracil	F	O-acyl
CH_3	H	H	O	Guanine	F	O-acyl
CH_3	H	H	O	Cytosine	F	O-acyl
CH_3	H	H	O	Adenine	F	O-acyl
CH_3	H	H	O	Hypoxanthine	F	O-acyl
CH_3	H	H	O	5-Fluorouracil	F	O-acyl
CH_3	H	H	O	8-Fluoroguanine	F	O-acyl
CH_3	H	H	O	5-Fluorocytosine	F	O-acyl
CH_3	H	H	O	8-Fluoroadenine	F	O-acyl
CH_3	H	H	O	2-Fluoroadenine	F	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2-Aminoadenine	F	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	H	O	2-N-acetylguanine	F	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	H	O	6-N-acetyladenine	F	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	H	O	Thymine	Br	O-amino acid
CH_3	H	H	O	Uracil	Br	O-amino acid
CH_3	H	H	O	Guanine	Br	O-amino acid
CH_3	H	H	O	Cytosine	Br	O-amino acid
CH_3	H	H	O	Adenine	Br	O-amino acid
CH_3	H	H	O	Hypoxanthine	Br	O-amino acid
CH_3	H	H	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	H	O	Thymine	Br	O-acyl
CH_3	H	H	O	Uracil	Br	O-acyl
CH_3	H	H	O	Guanine	Br	O-acyl
CH_3	H	H	O	Cytosine	Br	O-acyl
CH_3	H	H	O	Adenine	Br	O-acyl
CH_3	H	H	O	Hypoxanthine	Br	O-acyl
CH_3	H	H	O	5-Fluorouracil	Br	O-acyl
CH_3	H	H	O	8-Fluoroguanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	H	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-Aminoadenine	Br	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	H	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	H	O	Thymine	Cl	O-amino acid
CH_3	H	H	O	Uracil	Cl	O-amino acid
CH_3	H	H	O	Guanine	Cl	O-amino acid
CH_3	H	H	O	Cytosine	Cl	O-amino acid
CH_3	H	H	O	Adenine	Cl	O-amino acid
CH_3	H	H	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	H	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	H	O	Thymine	Cl	O-acyl
CH_3	H	H	O	Uracil	Cl	O-acyl
CH_3	H	H	O	Guanine	Cl	O-acyl
CH_3	H	H	O	Cytosine	Cl	O-acyl
CH_3	H	H	O	Adenine	Cl	O-acyl
CH_3	H	H	O	Hypoxanthine	Cl	O-acyl
CH_3	H	H	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	H	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	H	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	H	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	H	O	Thymine	H	O-amino acid
CH_3	H	H	O	Uracil	H	O-amino acid
CH_3	H	H	O	Guanine	H	O-amino acid
CH_3	H	H	O	Cytosine	H	O-amino acid
CH_3	H	H	O	Adenine	H	O-amino acid
CH_3	H	H	O	Hypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	5-Fluorouracil	H	O-amino acid
CH_3	H	H	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	H	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	H	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	H	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	H	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-Aminoadenine	H	O-amino acid
CH_3	H	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	H	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	H	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	H	O	Thymine	H	O-acyl
CH_3	H	H	O	Uracil	H	O-acyl
CH_3	H	H	O	Guanine	H	O-acyl
CH_3	H	H	O	Cytosine	H	O-acyl
CH_3	H	H	O	Adenine	H	O-acyl
CH_3	H	H	O	Hypoxanthine	H	O-acyl
CH_3	H	H	O	5-Fluorouracil	H	O-acyl
CH_3	H	H	O	8-Fluoroguanine	H	O-acyl
CH_3	H	H	O	5-Fluorocytosine	H	O-acyl
CH_3	H	H	O	8-Fluoroadenine	H	O-acyl
CH_3	H	H	O	2-Fluoroadenine	H	O-acyl
CH_3	H	H	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	H	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2-Aminoadenine	H	O-acyl
CH_3	H	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	H	O	2-N-acetylguanine	H	O-acyl
CH_3	H	H	O	4-N-acetylcytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	O	6-N-acetyladenine	H	O-acyl
CH_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	O	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	OH	O	Thymine	F	O-amino acid
CH_3	H	OH	O	Uracil	F	O-amino acid
CH_3	H	OH	O	Guanine	F	O-amino acid
CH_3	H	OH	O	Cytosine	F	O-amino acid
CH_3	H	OH	O	Adenine	F	O-amino acid
CH_3	H	OH	O	Hypoxanthine	F	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	F	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	F	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	F	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	F	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylguanine	F	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	OH	O	Thymine	F	O-acyl
CH_3	H	OH	O	Uracil	F	O-acyl
CH_3	H	OH	O	Guanine	F	O-acyl
CH_3	H	OH	O	Cytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	Adenine	F	O-acyl
CH_3	H	OH	O	Hypoxanthine	F	O-acyl
CH_3	H	OH	O	5-Fluorouracil	F	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	F	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	F	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	F	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	F	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-Aminoadenine	F	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	F	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	F	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	F	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	OH	O	Thymine	Br	O-amino acid
CH_3	H	OH	O	Uracil	Br	O-amino acid
CH_3	H	OH	O	Guanine	Br	O-amino acid
CH_3	H	OH	O	Cytosine	Br	O-amino acid
CH_3	H	OH	O	Adenine	Br	O-amino acid
CH_3	H	OH	O	Hypoxanthine	Br	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	Br	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	Br	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	Br	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	Br	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	2-N-acetylguanine	Br	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	OH	O	Thymine	Br	O-acyl
CH_3	H	OH	O	Uracil	Br	O-acyl
CH_3	H	OH	O	Guanine	Br	O-acyl
CH_3	H	OH	O	Cytosine	Br	O-acyl
CH_3	H	OH	O	Adenine	Br	O-acyl
CH_3	H	OH	O	Hypoxanthine	Br	O-acyl
CH_3	H	OH	O	5-Fluorouracil	Br	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	Br	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	Br	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-Aminoadenine	Br	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	Br	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	OH	O	Thymine	Cl	O-amino acid
CH_3	H	OH	O	Uracil	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	Guanine	Cl	O-amino acid
CH_3	H	OH	O	Cytosine	Cl	O-amino acid
CH_3	H	OH	O	Adenine	Cl	O-amino acid
CH_3	H	OH	O	Hypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	Cl	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	O	Thymine	Cl	O-acyl
CH_3	H	OH	O	Uracil	Cl	O-acyl
CH_3	H	OH	O	Guanine	Cl	O-acyl
CH_3	H	OH	O	Cytosine	Cl	O-acyl
CH_3	H	OH	O	Adenine	Cl	O-acyl
CH_3	H	OH	O	Hypoxanthine	Cl	O-acyl
CH_3	H	OH	O	5-Fluorouracil	Cl	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	Cl	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	Cl	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-Aminoadenine	Cl	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	Cl	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	OH	O	Thymine	H	O-amino acid
CH_3	H	OH	O	Uracil	H	O-amino acid
CH_3	H	OH	O	Guanine	H	O-amino acid
CH_3	H	OH	O	Cytosine	H	O-amino acid
CH_3	H	OH	O	Adenine	H	O-amino acid
CH_3	H	OH	O	Hypoxanthine	H	O-amino acid
CH_3	H	OH	O	5-Fluorouracil	H	O-amino acid
CH_3	H	OH	O	8-Fluoroguanine	H	O-amino acid
CH_3	H	OH	O	5-Fluorocytosine	H	O-amino acid
CH_3	H	OH	O	8-Fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-Fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-Aminoadenine	H	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylguanine	H	O-amino acid
CH_3	H	OH	O	4-N-acetylcytosine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyladenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	Thymine	H	O-acyl
CH_3	H	OH	O	Uracil	H	O-acyl
CH_3	H	OH	O	Guanine	H	O-acyl
CH_3	H	OH	O	Cytosine	H	O-acyl
CH_3	H	OH	O	Adenine	H	O-acyl
CH_3	H	OH	O	Hypoxanthine	H	O-acyl
CH_3	H	OH	O	5-Fluorouracil	H	O-acyl
CH_3	H	OH	O	8-Fluoroguanine	H	O-acyl
CH_3	H	OH	O	5-Fluorocytosine	H	O-acyl
CH_3	H	OH	O	8-Fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-Fluoroadenine	H	O-acyl
CH_3	H	OH	O	2,8-Difluoroadenine	H	O-acyl
CH_3	H	OH	O	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-Aminoadenine	H	O-acyl
CH_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-Aminohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-N-acetylguanine	H	O-acyl
CH_3	H	OH	O	4-N-acetylcytosine	H	O-acyl
CH_3	H	OH	O	6-N-acetyladenine	H	O-acyl
CH_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	Thymine	F	H
CF_3	O-acyl	F	O	Uracil	F	H
CF_3	O-acyl	F	O	Guanine	F	H
CF_3	O-acyl	F	O	Cytosine	F	H
CF_3	O-acyl	F	O	Adenine	F	H
CF_3	O-acyl	F	O	Hypoxanthine	F	H
CF_3	O-acyl	F	O	5-Fluorouracil	F	H
CF_3	O-acyl	F	O	8-Fluoroguanine	F	H
CF_3	O-acyl	F	O	5-Fluorocytosine	F	H
CF_3	O-acyl	F	O	8-Fluoroadenine	F	H
CF_3	O-acyl	F	O	2-Fluoroadenine	F	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2-Aminoadenine	F	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	F	O	2-N-acetylguanine	F	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	F	O	6-N-acetyladenine	F	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	F	O	Thymine	F	O-amino acid
CF_3	O-acyl	F	O	Uracil	F	O-amino acid
CF_3	O-acyl	F	O	Guanine	F	O-amino acid
CF_3	O-acyl	F	O	Cytosine	F	O-amino acid
CF_3	O-acyl	F	O	Adenine	F	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	O	Thymine	F	O-acyl
CF_3	O-acyl	F	O	Uracil	F	O-acyl
CF_3	O-acyl	F	O	Guanine	F	O-acyl
CF_3	O-acyl	F	O	Cytosine	F	O-acyl
CF_3	O-acyl	F	O	Adenine	F	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	O	Thymine	F	OH
CF_3	O-acyl	F	O	Uracil	F	OH
CF_3	O-acyl	F	O	Guanine	F	OH
CF_3	O-acyl	F	O	Cytosine	F	OH
CF_3	O-acyl	F	O	Adenine	F	OH
CF_3	O-acyl	F	O	Hypoxanthine	F	OH
CF_3	O-acyl	F	O	5-Fluorouracil	F	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-Aminoadenine	F	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	F	O	Thymine	Br	H
CF_3	O-acyl	F	O	Uracil	Br	H
CF_3	O-acyl	F	O	Guanine	Br	H
CF_3	O-acyl	F	O	Cytosine	Br	H
CF_3	O-acyl	F	O	Adenine	Br	H
CF_3	O-acyl	F	O	Hypoxanthine	Br	H
CF_3	O-acyl	F	O	5-Fluorouracil	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-Aminoadenine	Br	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	F	O	Thymine	Br	O-amino acid
CF_3	O-acyl	F	O	Uracil	Br	O-amino acid
CF_3	O-acyl	F	O	Guanine	Br	O-amino acid
CF_3	O-acyl	F	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	F	O	Adenine	Br	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	O	Thymine	Br	O-acyl
CF_3	O-acyl	F	O	Uracil	Br	O-acyl
CF_3	O-acyl	F	O	Guanine	Br	O-acyl
CF_3	O-acyl	F	O	Cytosine	Br	O-acyl
CF_3	O-acyl	F	O	Adenine	Br	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	O	Thymine	Br	OH
CF_3	O-acyl	F	O	Uracil	Br	OH
CF_3	O-acyl	F	O	Guanine	Br	OH
CF_3	O-acyl	F	O	Cytosine	Br	OH
CF_3	O-acyl	F	O	Adenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	Hypoxanthine	Br	OH
CF_3	O-acyl	F	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	F	O	Thymine	Cl	O-acyl
CF_3	O-acyl	F	O	Uracil	Cl	O-acyl
CF_3	O-acyl	F	O	Guanine	Cl	O-acyl
CF_3	O-acyl	F	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	F	O	Adenine	Cl	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	O	Thymine	Cl	OH
CF_3	O-acyl	F	O	Uracil	Cl	OH
CF_3	O-acyl	F	O	Guanine	Cl	OH
CF_3	O-acyl	F	O	Cytosine	Cl	OH
CF_3	O-acyl	F	O	Adenine	Cl	OH
CF_3	O-acyl	F	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	F	O	Thymine	Cl	H
CF_3	O-acyl	F	O	Uracil	Cl	H
CF_3	O-acyl	F	O	Guanine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	Cytosine	Cl	H
CF_3	O-acyl	F	O	Adenine	Cl	H
CF_3	O-acyl	F	O	Hypoxanthine	Cl	H
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	F	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	F	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	F	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	F	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	O	Thymine	H	H
CF_3	O-acyl	F	O	Uracil	H	H
CF_3	O-acyl	F	O	Guanine	H	H
CF_3	O-acyl	F	O	Cytosine	H	H
CF_3	O-acyl	F	O	Adenine	H	H
CF_3	O-acyl	F	O	Hypoxanthine	H	H
CF_3	O-acyl	F	O	5-Fluorouracil	H	H
CF_3	O-acyl	F	O	8-Fluoroguanine	H	H
CF_3	O-acyl	F	O	5-Fluorocytosine	H	H
CF_3	O-acyl	F	O	8-Fluoroadenine	H	H
CF_3	O-acyl	F	O	2-Fluoroadenine	H	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2-Aminoadenine	H	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	F	O	2-N-acetylguanine	H	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	F	O	6-N-acetyladenine	H	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	F	O	Thymine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	Uracil	H	O-amino acid
CF_3	O-acyl	F	O	Guanine	H	O-amino acid
CF_3	O-acyl	F	O	Cytosine	H	O-amino acid
CF_3	O-acyl	F	O	Adenine	H	O-amino acid
CF_3	O-acyl	F	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	O	Thymine	H	O-acyl
CF_3	O-acyl	F	O	Uracil	H	O-acyl
CF_3	O-acyl	F	O	Guanine	H	O-acyl
CF_3	O-acyl	F	O	Cytosine	H	O-acyl
CF_3	O-acyl	F	O	Adenine	H	O-acyl
CF_3	O-acyl	F	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	F	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	F	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	F	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-Aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	O	Thymine	H	OH
CF_3	O-acyl	F	O	Uracil	H	OH
CF_3	O-acyl	F	O	Guanine	H	OH
CF_3	O-acyl	F	O	Cytosine	H	OH
CF_3	O-acyl	F	O	Adenine	H	OH
CF_3	O-acyl	F	O	Hypoxanthine	H	OH
CF_3	O-acyl	F	O	5-Fluorouracil	H	OH
CF_3	O-acyl	F	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	F	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	F	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	F	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-Aminoadenine	H	OH
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	F	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	F	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	F	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	F	O	Thymine	OH	H
CF_3	O-acyl	F	O	Uracil	OH	H
CF_3	O-acyl	F	O	Guanine	OH	H
CF_3	O-acyl	F	O	Cytosine	OH	H
CF_3	O-acyl	F	O	Adenine	OH	H
CF_3	O-acyl	F	O	Hypoxanthine	OH	H
CF_3	O-acyl	F	O	5-Fluorouracil	OH	H
CF_3	O-acyl	F	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	F	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	F	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	F	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	F	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-Aminoadenine	OH	H
CF_3	O-acyl	F	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	F	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	F	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Br	O	Thymine	F	H
CF_3	O-acyl	Br	O	Uracil	F	H
CF_3	O-acyl	Br	O	Guanine	F	H
CF_3	O-acyl	Br	O	Cytosine	F	H
CF_3	O-acyl	Br	O	Adenine	F	H
CF_3	O-acyl	Br	O	Hypoxanthine	F	H
CF_3	O-acyl	Br	O	5-Fluorouracil	F	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-Aminoadenine	F	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Br	O	Thymine	F	O-amino acid
CF_3	O-acyl	Br	O	Uracil	F	O-amino acid
CF_3	O-acyl	Br	O	Guanine	F	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	F	O-amino acid
CF_3	O-acyl	Br	O	Adenine	F	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	O	Thymine	F	O-acyl
CF_3	O-acyl	Br	O	Uracil	F	O-acyl
CF_3	O-acyl	Br	O	Guanine	F	O-acyl
CF_3	O-acyl	Br	O	Cytosine	F	O-acyl
CF_3	O-acyl	Br	O	Adenine	F	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	O	Thymine	F	OH
CF_3	O-acyl	Br	O	Uracil	F	OH
CF_3	O-acyl	Br	O	Guanine	F	OH
CF_3	O-acyl	Br	O	Cytosine	F	OH
CF_3	O-acyl	Br	O	Adenine	F	OH
CF_3	O-acyl	Br	O	Hypoxanthine	F	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	F	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	F	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Br	O	Thymine	Br	H
CF_3	O-acyl	Br	O	Uracil	Br	H
CF_3	O-acyl	Br	O	Guanine	Br	H
CF_3	O-acyl	Br	O	Cytosine	Br	H
CF_3	O-acyl	Br	O	Adenine	Br	H
CF_3	O-acyl	Br	O	Hypoxanthine	Br	H
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Br	O	Thymine	Br	O-amino acid
CF_3	O-acyl	Br	O	Uracil	Br	O-amino acid
CF_3	O-acyl	Br	O	Guanine	Br	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	Adenine	Br	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	O	Thymine	Br	O-acyl
CF_3	O-acyl	Br	O	Uracil	Br	O-acyl
CF_3	O-acyl	Br	O	Guanine	Br	O-acyl
CF_3	O-acyl	Br	O	Cytosine	Br	O-acyl
CF_3	O-acyl	Br	O	Adenine	Br	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	O	Thymine	Br	OH
CF_3	O-acyl	Br	O	Uracil	Br	OH
CF_3	O-acyl	Br	O	Guanine	Br	OH
CF_3	O-acyl	Br	O	Cytosine	Br	OH
CF_3	O-acyl	Br	O	Adenine	Br	OH
CF_3	O-acyl	Br	O	Hypoxanthine	Br	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Br	O	Thymine	Cl	H
CF_3	O-acyl	Br	O	Uracil	Cl	H
CF_3	O-acyl	Br	O	Guanine	Cl	H
CF_3	O-acyl	Br	O	Cytosine	Cl	H
CF_3	O-acyl	Br	O	Adenine	Cl	H
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	H
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Br	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	Br	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	O	Thymine	Cl	O-acyl
CF_3	O-acyl	Br	O	Uracil	Cl	O-acyl
CF_3	O-acyl	Br	O	Guanine	Cl	O-acyl
CF_3	O-acyl	Br	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	Adenine	Cl	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	O	Thymine	Cl	OH
CF_3	O-acyl	Br	O	Uracil	Cl	OH
CF_3	O-acyl	Br	O	Guanine	Cl	OH
CF_3	O-acyl	Br	O	Cytosine	Cl	OH
CF_3	O-acyl	Br	O	Adenine	Cl	OH
CF_3	O-acyl	Br	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	O	Thymine	H	H
CF_3	O-acyl	Br	O	Uracil	H	H
CF_3	O-acyl	Br	O	Guanine	H	H
CF_3	O-acyl	Br	O	Cytosine	H	H
CF_3	O-acyl	Br	O	Adenine	H	H
CF_3	O-acyl	Br	O	Hypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	5-Fluorouracil	H	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-Aminoadenine	H	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Br	O	Thymine	H	O-amino acid
CF_3	O-acyl	Br	O	Uracil	H	O-amino acid
CF_3	O-acyl	Br	O	Guanine	H	O-amino acid
CF_3	O-acyl	Br	O	Cytosine	H	O-amino acid
CF_3	O-acyl	Br	O	Adenine	H	O-amino acid
CF_3	O-acyl	Br	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	O	Thymine	H	O-acyl
CF_3	O-acyl	Br	O	Uracil	H	O-acyl
CF_3	O-acyl	Br	O	Guanine	H	O-acyl
CF_3	O-acyl	Br	O	Cytosine	H	O-acyl
CF_3	O-acyl	Br	O	Adenine	H	O-acyl
CF_3	O-acyl	Br	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	O	Thymine	H	OH
CF_3	O-acyl	Br	O	Uracil	H	OH
CF_3	O-acyl	Br	O	Guanine	H	OH
CF_3	O-acyl	Br	O	Cytosine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	Adenine	H	OH
CF_3	O-acyl	Br	O	Hypoxanthine	H	OH
CF_3	O-acyl	Br	O	5-Fluorouracil	H	OH
CF_3	O-acyl	Br	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	Br	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	Br	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-Aminoadenine	H	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	Br	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Br	O	Thymine	OH	H
CF_3	O-acyl	Br	O	Uracil	OH	H
CF_3	O-acyl	Br	O	Guanine	OH	H
CF_3	O-acyl	Br	O	Cytosine	OH	H
CF_3	O-acyl	Br	O	Adenine	OH	H
CF_3	O-acyl	Br	O	Hypoxanthine	OH	H
CF_3	O-acyl	Br	O	5-Fluorouracil	OH	H
CF_3	O-acyl	Br	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	Br	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	Br	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-Aminoadenine	OH	H
CF_3	O-acyl	Br	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-Aminohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	Br	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	Thymine	F	H
CF_3	O-acyl	Cl	O	Uracil	F	H
CF_3	O-acyl	Cl	O	Guanine	F	H
CF_3	O-acyl	Cl	O	Cytosine	F	H
CF_3	O-acyl	Cl	O	Adenine	F	H
CF_3	O-acyl	Cl	O	Hypoxanthine	F	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Cl	O	Thymine	F	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	Guanine	F	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	F	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	F	O-acyl
CF_3	O-acyl	Cl	O	Uracil	F	O-acyl
CF_3	O-acyl	Cl	O	Guanine	F	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	F	O-acyl
CF_3	O-acyl	Cl	O	Adenine	F	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	O	Thymine	F	OH
CF_3	O-acyl	Cl	O	Uracil	F	OH
CF_3	O-acyl	Cl	O	Guanine	F	OH
CF_3	O-acyl	Cl	O	Cytosine	F	OH
CF_3	O-acyl	Cl	O	Adenine	F	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	F	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	F	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	F	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	Thymine	Br	H
CF_3	O-acyl	Cl	O	Uracil	Br	H
CF_3	O-acyl	Cl	O	Guanine	Br	H
CF_3	O-acyl	Cl	O	Cytosine	Br	H
CF_3	O-acyl	Cl	O	Adenine	Br	H
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Cl	O	Thymine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	Br	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	Br	O-acyl
CF_3	O-acyl	Cl	O	Uracil	Br	O-acyl
CF_3	O-acyl	Cl	O	Guanine	Br	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	Adenine	Br	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	O	Thymine	Br	OH
CF_3	O-acyl	Cl	O	Uracil	Br	OH
CF_3	O-acyl	Cl	O	Guanine	Br	OH
CF_3	O-acyl	Cl	O	Cytosine	Br	OH
CF_3	O-acyl	Cl	O	Adenine	Br	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	O	Thymine	Cl	H
CF_3	O-acyl	Cl	O	Uracil	Cl	H
CF_3	O-acyl	Cl	O	Guanine	Cl	H
CF_3	O-acyl	Cl	O	Cytosine	Cl	H
CF_3	O-acyl	Cl	O	Adenine	Cl	H
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	O	Thymine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Uracil	Cl	O-acyl
CF_3	O-acyl	Cl	O	Guanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Adenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	O	Thymine	Cl	OH
CF_3	O-acyl	Cl	O	Uracil	Cl	OH
CF_3	O-acyl	Cl	O	Guanine	Cl	OH
CF_3	O-acyl	Cl	O	Cytosine	Cl	OH
CF_3	O-acyl	Cl	O	Adenine	Cl	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	O	Thymine	H	H
CF_3	O-acyl	Cl	O	Uracil	H	H
CF_3	O-acyl	Cl	O	Guanine	H	H
CF_3	O-acyl	Cl	O	Cytosine	H	H
CF_3	O-acyl	Cl	O	Adenine	H	H
CF_3	O-acyl	Cl	O	Hypoxanthine	H	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Cl	O	Thymine	H	O-amino acid
CF_3	O-acyl	Cl	O	Uracil	H	O-amino acid
CF_3	O-acyl	Cl	O	Guanine	H	O-amino acid
CF_3	O-acyl	Cl	O	Cytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	Adenine	H	O-amino acid
CF_3	O-acyl	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	O	Thymine	H	O-acyl
CF_3	O-acyl	Cl	O	Uracil	H	O-acyl
CF_3	O-acyl	Cl	O	Guanine	H	O-acyl
CF_3	O-acyl	Cl	O	Cytosine	H	O-acyl
CF_3	O-acyl	Cl	O	Adenine	H	O-acyl
CF_3	O-acyl	Cl	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	O	Thymine	H	OH
CF_3	O-acyl	Cl	O	Uracil	H	OH
CF_3	O-acyl	Cl	O	Guanine	H	OH
CF_3	O-acyl	Cl	O	Cytosine	H	OH
CF_3	O-acyl	Cl	O	Adenine	H	OH
CF_3	O-acyl	Cl	O	Hypoxanthine	H	OH
CF_3	O-acyl	Cl	O	5-Fluorouracil	H	OH
CF_3	O-acyl	Cl	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	Cl	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	Cl	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-Aminoadenine	H	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Cl	O	Thymine	OH	H
CF_3	O-acyl	Cl	O	Uracil	OH	H
CF_3	O-acyl	Cl	O	Guanine	OH	H
CF_3	O-acyl	Cl	O	Cytosine	OH	H
CF_3	O-acyl	Cl	O	Adenine	OH	H
CF_3	O-acyl	Cl	O	Hypoxanthine	OH	H
CF_3	O-acyl	Cl	O	5-Fluorouracil	OH	H
CF_3	O-acyl	Cl	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	Cl	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	Cl	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-Aminoadenine	OH	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	Cl	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	H	O	Thymine	F	H
CF_3	O-acyl	H	O	Uracil	F	H
CF_3	O-acyl	H	O	Guanine	F	H
CF_3	O-acyl	H	O	Cytosine	F	H
CF_3	O-acyl	H	O	Adenine	F	H
CF_3	O-acyl	H	O	Hypoxanthine	F	H
CF_3	O-acyl	H	O	5-Fluorouracil	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	8-Fluoroguanine	F	H
CF_3	O-acyl	H	O	5-Fluorocytosine	F	H
CF_3	O-acyl	H	O	8-Fluoroadenine	F	H
CF_3	O-acyl	H	O	2-Fluoroadenine	F	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2-Aminoadenine	F	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	H
CF_3	O-acyl	H	O	2-N-acetylguanine	F	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	H
CF_3	O-acyl	H	O	6-N-acetyladenine	F	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	H	O	Thymine	F	O-amino acid
CF_3	O-acyl	H	O	Uracil	F	O-amino acid
CF_3	O-acyl	H	O	Guanine	F	O-amino acid
CF_3	O-acyl	H	O	Cytosine	F	O-amino acid
CF_3	O-acyl	H	O	Adenine	F	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	O	Thymine	F	O-acyl
CF_3	O-acyl	H	O	Uracil	F	O-acyl
CF_3	O-acyl	H	O	Guanine	F	O-acyl
CF_3	O-acyl	H	O	Cytosine	F	O-acyl
CF_3	O-acyl	H	O	Adenine	F	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	O	Thymine	F	OH
CF_3	O-acyl	H	O	Uracil	F	OH
CF_3	O-acyl	H	O	Guanine	F	OH
CF_3	O-acyl	H	O	Cytosine	F	OH
CF_3	O-acyl	H	O	Adenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	Hypoxanthine	F	OH
CF_3	O-acyl	H	O	5-Fluorouracil	F	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	F	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	F	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	F	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-Aminoadenine	F	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	F	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	F	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	F	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	H	O	Thymine	Br	H
CF_3	O-acyl	H	O	Uracil	Br	H
CF_3	O-acyl	H	O	Guanine	Br	H
CF_3	O-acyl	H	O	Cytosine	Br	H
CF_3	O-acyl	H	O	Adenine	Br	H
CF_3	O-acyl	H	O	Hypoxanthine	Br	H
CF_3	O-acyl	H	O	5-Fluorouracil	Br	H
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	H
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	H
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-Aminoadenine	Br	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	H
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	H	O	Thymine	Br	O-amino acid
CF_3	O-acyl	H	O	Uracil	Br	O-amino acid
CF_3	O-acyl	H	O	Guanine	Br	O-amino acid
CF_3	O-acyl	H	O	Cytosine	Br	O-amino acid
CF_3	O-acyl	H	O	Adenine	Br	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	O	Thymine	Br	O-acyl
CF_3	O-acyl	H	O	Uracil	Br	O-acyl
CF_3	O-acyl	H	O	Guanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	Cytosine	Br	O-acyl
CF_3	O-acyl	H	O	Adenine	Br	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	O	Thymine	Br	OH
CF_3	O-acyl	H	O	Uracil	Br	OH
CF_3	O-acyl	H	O	Guanine	Br	OH
CF_3	O-acyl	H	O	Cytosine	Br	OH
CF_3	O-acyl	H	O	Adenine	Br	OH
CF_3	O-acyl	H	O	Hypoxanthine	Br	OH
CF_3	O-acyl	H	O	5-Fluorouracil	Br	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	Br	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	Br	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2-Aminoadenine	Br	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	Br	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	H	O	Thymine	Cl	H
CF_3	O-acyl	H	O	Uracil	Cl	H
CF_3	O-acyl	H	O	Guanine	Cl	H
CF_3	O-acyl	H	O	Cytosine	Cl	H
CF_3	O-acyl	H	O	Adenine	Cl	H
CF_3	O-acyl	H	O	Hypoxanthine	Cl	H
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	H
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	H
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	H
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	H	O	Thymine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	Uracil	Cl	O-amino acid
CF_3	O-acyl	H	O	Guanine	Cl	O-amino acid
CF_3	O-acyl	H	O	Cytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	Adenine	Cl	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	O	Thymine	Cl	O-acyl
CF_3	O-acyl	H	O	Uracil	Cl	O-acyl
CF_3	O-acyl	H	O	Guanine	Cl	O-acyl
CF_3	O-acyl	H	O	Cytosine	Cl	O-acyl
CF_3	O-acyl	H	O	Adenine	Cl	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	O	Thymine	Cl	OH
CF_3	O-acyl	H	O	Uracil	Cl	OH
CF_3	O-acyl	H	O	Guanine	Cl	OH
CF_3	O-acyl	H	O	Cytosine	Cl	OH
CF_3	O-acyl	H	O	Adenine	Cl	OH
CF_3	O-acyl	H	O	Hypoxanthine	Cl	OH
CF_3	O-acyl	H	O	5-Fluorouracil	Cl	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-Aminoadenine	Cl	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	H	O	Thymine	H	H
CF_3	O-acyl	H	O	Uracil	H	H
CF_3	O-acyl	H	O	Guanine	H	H
CF_3	O-acyl	H	O	Cytosine	H	H
CF_3	O-acyl	H	O	Adenine	H	H
CF_3	O-acyl	H	O	Hypoxanthine	H	H
CF_3	O-acyl	H	O	5-Fluorouracil	H	H
CF_3	O-acyl	H	O	8-Fluoroguanine	H	H
CF_3	O-acyl	H	O	5-Fluorocytosine	H	H
CF_3	O-acyl	H	O	8-Fluoroadenine	H	H
CF_3	O-acyl	H	O	2-Fluoroadenine	H	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	H
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2-Aminoadenine	H	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	H
CF_3	O-acyl	H	O	2-N-acetylguanine	H	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	H
CF_3	O-acyl	H	O	6-N-acetyladenine	H	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	H	O	Thymine	H	O-amino acid
CF_3	O-acyl	H	O	Uracil	H	O-amino acid
CF_3	O-acyl	H	O	Guanine	H	O-amino acid
CF_3	O-acyl	H	O	Cytosine	H	O-amino acid
CF_3	O-acyl	H	O	Adenine	H	O-amino acid
CF_3	O-acyl	H	O	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	O	Thymine	H	O-acyl
CF_3	O-acyl	H	O	Uracil	H	O-acyl
CF_3	O-acyl	H	O	Guanine	H	O-acyl
CF_3	O-acyl	H	O	Cytosine	H	O-acyl
CF_3	O-acyl	H	O	Adenine	H	O-acyl
CF_3	O-acyl	H	O	Hypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	H	O	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	H	O	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	H	O	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	O	Thymine	H	OH
CF_3	O-acyl	H	O	Uracil	H	OH
CF_3	O-acyl	H	O	Guanine	H	OH
CF_3	O-acyl	H	O	Cytosine	H	OH
CF_3	O-acyl	H	O	Adenine	H	OH
CF_3	O-acyl	H	O	Hypoxanthine	H	OH
CF_3	O-acyl	H	O	5-Fluorouracil	H	OH
CF_3	O-acyl	H	O	8-Fluoroguanine	H	OH
CF_3	O-acyl	H	O	5-Fluorocytosine	H	OH
CF_3	O-acyl	H	O	8-Fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-Fluoroadenine	H	OH
CF_3	O-acyl	H	O	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-Aminoadenine	H	OH
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-N-acetylguanine	H	OH
CF_3	O-acyl	H	O	4-N-acetylcytosine	H	OH
CF_3	O-acyl	H	O	6-N-acetyladenine	H	OH
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	H	O	Thymine	OH	H
CF_3	O-acyl	H	O	Uracil	OH	H
CF_3	O-acyl	H	O	Guanine	OH	H
CF_3	O-acyl	H	O	Cytosine	OH	H
CF_3	O-acyl	H	O	Adenine	OH	H
CF_3	O-acyl	H	O	Hypoxanthine	OH	H
CF_3	O-acyl	H	O	5-Fluorouracil	OH	H
CF_3	O-acyl	H	O	8-Fluoroguanine	OH	H
CF_3	O-acyl	H	O	5-Fluorocytosine	OH	H
CF_3	O-acyl	H	O	8-Fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-Fluoroadenine	OH	H
CF_3	O-acyl	H	O	2,8-Difluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	O	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-Aminoadenine	OH	H
CF_3	O-acyl	H	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-N-acetylguanine	OH	H
CF_3	O-acyl	H	O	4-N-acetylcytosine	OH	H
CF_3	O-acyl	H	O	6-N-acetyladenine	OH	H
CF_3	O-acyl	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	F	O	Thymine	F	H
CF_3	O-amino acid	F	O	Uracil	F	H
CF_3	O-amino acid	F	O	Guanine	F	H
CF_3	O-amino acid	F	O	Cytosine	F	H
CF_3	O-amino acid	F	O	Adenine	F	H
CF_3	O-amino acid	F	O	Hypoxanthine	F	H
CF_3	O-amino acid	F	O	5-Fluorouracil	F	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-Aminoadenine	F	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	F	O	Thymine	F	O-amino acid
CF_3	O-amino acid	F	O	Uracil	F	O-amino acid
CF_3	O-amino acid	F	O	Guanine	F	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	F	O	Adenine	F	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	O	Thymine	F	O-acyl
CF_3	O-amino acid	F	O	Uracil	F	O-acyl
CF_3	O-amino acid	F	O	Guanine	F	O-acyl
CF_3	O-amino acid	F	O	Cytosine	F	O-acyl
CF_3	O-amino acid	F	O	Adenine	F	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	O	Thymine	F	OH
CF_3	O-amino acid	F	O	Uracil	F	OH
CF_3	O-amino acid	F	O	Guanine	F	OH
CF_3	O-amino acid	F	O	Cytosine	F	OH
CF_3	O-amino acid	F	O	Adenine	F	OH
CF_3	O-amino acid	F	O	Hypoxanthine	F	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	F	O	Thymine	Br	H
CF_3	O-amino acid	F	O	Uracil	Br	H
CF_3	O-amino acid	F	O	Guanine	Br	H
CF_3	O-amino acid	F	O	Cytosine	Br	H
CF_3	O-amino acid	F	O	Adenine	Br	H
CF_3	O-amino acid	F	O	Hypoxanthine	Br	H
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	F	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	F	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	F	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	O	Thymine	Br	O-acyl
CF_3	O-amino acid	F	O	Uracil	Br	O-acyl
CF_3	O-amino acid	F	O	Guanine	Br	O-acyl
CF_3	O-amino acid	F	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	F	O	Adenine	Br	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	O	Thymine	Br	OH
CF_3	O-amino acid	F	O	Uracil	Br	OH
CF_3	O-amino acid	F	O	Guanine	Br	OH
CF_3	O-amino acid	F	O	Cytosine	Br	OH
CF_3	O-amino acid	F	O	Adenine	Br	OH
CF_3	O-amino acid	F	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	F	O	Thymine	Cl	H
CF_3	O-amino acid	F	O	Uracil	Cl	H
CF_3	O-amino acid	F	O	Guanine	Cl	H
CF_3	O-amino acid	F	O	Cytosine	Cl	H
CF_3	O-amino acid	F	O	Adenine	Cl	H
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	F	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	F	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	F	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	F	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	F	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	O	Thymine	Cl	OH
CF_3	O-amino acid	F	O	Uracil	Cl	OH
CF_3	O-amino acid	F	O	Guanine	Cl	OH
CF_3	O-amino acid	F	O	Cytosine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	Adenine	Cl	OH
CF_3	O-amino acid	F	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	O	Thymine	H	H
CF_3	O-amino acid	F	O	Uracil	H	H
CF_3	O-amino acid	F	O	Guanine	H	H
CF_3	O-amino acid	F	O	Cytosine	H	H
CF_3	O-amino acid	F	O	Adenine	H	H
CF_3	O-amino acid	F	O	Hypoxanthine	H	H
CF_3	O-amino acid	F	O	5-Fluorouracil	H	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-Aminoadenine	H	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	F	O	Thymine	H	O-amino acid
CF_3	O-amino acid	F	O	Uracil	H	O-amino acid
CF_3	O-amino acid	F	O	Guanine	H	O-amino acid
CF_3	O-amino acid	F	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	F	O	Adenine	H	O-amino acid
CF_3	O-amino acid	F	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	O	Thymine	H	O-acyl
CF_3	O-amino acid	F	O	Uracil	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	Guanine	H	O-acyl
CF_3	O-amino acid	F	O	Cytosine	H	O-acyl
CF_3	O-amino acid	F	O	Adenine	H	O-acyl
CF_3	O-amino acid	F	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	O	Thymine	H	OH
CF_3	O-amino acid	F	O	Uracil	H	OH
CF_3	O-amino acid	F	O	Guanine	H	OH
CF_3	O-amino acid	F	O	Cytosine	H	OH
CF_3	O-amino acid	F	O	Adenine	H	OH
CF_3	O-amino acid	F	O	Hypoxanthine	H	OH
CF_3	O-amino acid	F	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	F	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	F	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	F	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	F	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	F	O	Thymine	OH	H
CF_3	O-amino acid	F	O	Uracil	OH	H
CF_3	O-amino acid	F	O	Guanine	OH	H
CF_3	O-amino acid	F	O	Cytosine	OH	H
CF_3	O-amino acid	F	O	Adenine	OH	H
CF_3	O-amino acid	F	O	Hypoxanthine	OH	H
CF_3	O-amino acid	F	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	F	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	F	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	F	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	F	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	F	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	F	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	F	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	O	2-N-acetylaminohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	Thymine	F	H
CF_3	O-amino acid	Br	O	Uracil	F	H
CF_3	O-amino acid	Br	O	Guanine	F	H
CF_3	O-amino acid	Br	O	Cytosine	F	H
CF_3	O-amino acid	Br	O	Adenine	F	H
CF_3	O-amino acid	Br	O	Hypoxanthine	F	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Br	O	Thymine	F	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	F	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	F	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	F	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	F	O-acyl
CF_3	O-amino acid	Br	O	Uracil	F	O-acyl
CF_3	O-amino acid	Br	O	Guanine	F	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	F	O-acyl
CF_3	O-amino acid	Br	O	Adenine	F	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	O	Thymine	F	OH
CF_3	O-amino acid	Br	O	Uracil	F	OH
CF_3	O-amino acid	Br	O	Guanine	F	OH
CF_3	O-amino acid	Br	O	Cytosine	F	OH
CF_3	O-amino acid	Br	O	Adenine	F	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	F	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Br	O	Thymine	Br	H
CF_3	O-amino acid	Br	O	Uracil	Br	H
CF_3	O-amino acid	Br	O	Guanine	Br	H
CF_3	O-amino acid	Br	O	Cytosine	Br	H
CF_3	O-amino acid	Br	O	Adenine	Br	H
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Br	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	Br	O-acyl
CF_3	O-amino acid	Br	O	Uracil	Br	O-acyl
CF_3	O-amino acid	Br	O	Guanine	Br	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	Adenine	Br	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	O	Thymine	Br	OH
CF_3	O-amino acid	Br	O	Uracil	Br	OH
CF_3	O-amino acid	Br	O	Guanine	Br	OH
CF_3	O-amino acid	Br	O	Cytosine	Br	OH
CF_3	O-amino acid	Br	O	Adenine	Br	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	O	Thymine	Cl	H
CF_3	O-amino acid	Br	O	Uracil	Cl	H
CF_3	O-amino acid	Br	O	Guanine	Cl	H
CF_3	O-amino acid	Br	O	Cytosine	Cl	H
CF_3	O-amino acid	Br	O	Adenine	Cl	H
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	Br	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	O	Thymine	Cl	OH
CF_3	O-amino acid	Br	O	Uracil	Cl	OH
CF_3	O-amino acid	Br	O	Guanine	Cl	OH
CF_3	O-amino acid	Br	O	Cytosine	Cl	OH
CF_3	O-amino acid	Br	O	Adenine	Cl	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	O	Thymine	H	H
CF_3	O-amino acid	Br	O	Uracil	H	H
CF_3	O-amino acid	Br	O	Guanine	H	H
CF_3	O-amino acid	Br	O	Cytosine	H	H
CF_3	O-amino acid	Br	O	Adenine	H	H
CF_3	O-amino acid	Br	O	Hypoxanthine	H	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Br	O	Thymine	H	O-amino acid
CF_3	O-amino acid	Br	O	Uracil	H	O-amino acid
CF_3	O-amino acid	Br	O	Guanine	H	O-amino acid
CF_3	O-amino acid	Br	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	Adenine	H	O-amino acid
CF_3	O-amino acid	Br	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	O	Thymine	H	O-acyl
CF_3	O-amino acid	Br	O	Uracil	H	O-acyl
CF_3	O-amino acid	Br	O	Guanine	H	O-acyl
CF_3	O-amino acid	Br	O	Cytosine	H	O-acyl
CF_3	O-amino acid	Br	O	Adenine	H	O-acyl
CF_3	O-amino acid	Br	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	O	Thymine	H	OH
CF_3	O-amino acid	Br	O	Uracil	H	OH
CF_3	O-amino acid	Br	O	Guanine	H	OH
CF_3	O-amino acid	Br	O	Cytosine	H	OH
CF_3	O-amino acid	Br	O	Adenine	H	OH
CF_3	O-amino acid	Br	O	Hypoxanthine	H	OH
CF_3	O-amino acid	Br	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	Br	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Br	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Br	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Br	O	Thymine	OH	H
CF_3	O-amino acid	Br	O	Uracil	OH	H
CF_3	O-amino acid	Br	O	Guanine	OH	H
CF_3	O-amino acid	Br	O	Cytosine	OH	H
CF_3	O-amino acid	Br	O	Adenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	O	Hypoxanthine	OH	H
CF_3	O-amino acid	Br	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	Br	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Br	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Br	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Br	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Br	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	Thymine	F	H
CF_3	O-amino acid	Cl	O	Uracil	F	H
CF_3	O-amino acid	Cl	O	Guanine	F	H
CF_3	O-amino acid	Cl	O	Cytosine	F	H
CF_3	O-amino acid	Cl	O	Adenine	F	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Cl	O	Thymine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	F	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	F	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	F	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	Cytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	F	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	F	OH
CF_3	O-amino acid	Cl	O	Uracil	F	OH
CF_3	O-amino acid	Cl	O	Guanine	F	OH
CF_3	O-amino acid	Cl	O	Cytosine	F	OH
CF_3	O-amino acid	Cl	O	Adenine	F	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	O	Thymine	Br	H
CF_3	O-amino acid	Cl	O	Uracil	Br	H
CF_3	O-amino acid	Cl	O	Guanine	Br	H
CF_3	O-amino acid	Cl	O	Cytosine	Br	H
CF_3	O-amino acid	Cl	O	Adenine	Br	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	O	Thymine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	Br	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	Br	OH
CF_3	O-amino acid	Cl	O	Uracil	Br	OH
CF_3	O-amino acid	Cl	O	Guanine	Br	OH
CF_3	O-amino acid	Cl	O	Cytosine	Br	OH
CF_3	O-amino acid	Cl	O	Adenine	Br	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	O	Thymine	Cl	H
CF_3	O-amino acid	Cl	O	Uracil	Cl	H
CF_3	O-amino acid	Cl	O	Guanine	Cl	H
CF_3	O-amino acid	Cl	O	Cytosine	Cl	H
CF_3	O-amino acid	Cl	O	Adenine	Cl	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	Cl	OH
CF_3	O-amino acid	Cl	O	Uracil	Cl	OH
CF_3	O-amino acid	Cl	O	Guanine	Cl	OH
CF_3	O-amino acid	Cl	O	Cytosine	Cl	OH
CF_3	O-amino acid	Cl	O	Adenine	Cl	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	O	Thymine	H	H
CF_3	O-amino acid	Cl	O	Uracil	H	H
CF_3	O-amino acid	Cl	O	Guanine	H	H
CF_3	O-amino acid	Cl	O	Cytosine	H	H
CF_3	O-amino acid	Cl	O	Adenine	H	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Cl	O	Thymine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Uracil	H	O-amino acid
CF_3	O-amino acid	Cl	O	Guanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Adenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	O	Thymine	H	O-acyl
CF_3	O-amino acid	Cl	O	Uracil	H	O-acyl
CF_3	O-amino acid	Cl	O	Guanine	H	O-acyl
CF_3	O-amino acid	Cl	O	Cytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	Adenine	H	O-acyl
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	O	Thymine	H	OH
CF_3	O-amino acid	Cl	O	Uracil	H	OH
CF_3	O-amino acid	Cl	O	Guanine	H	OH
CF_3	O-amino acid	Cl	O	Cytosine	H	OH
CF_3	O-amino acid	Cl	O	Adenine	H	OH
CF_3	O-amino acid	Cl	O	Hypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	O	Thymine	OH	H
CF_3	O-amino acid	Cl	O	Uracil	OH	H
CF_3	O-amino acid	Cl	O	Guanine	OH	H
CF_3	O-amino acid	Cl	O	Cytosine	OH	H
CF_3	O-amino acid	Cl	O	Adenine	OH	H
CF_3	O-amino acid	Cl	O	Hypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	Cl	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Cl	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Cl	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Cl	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Cl	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	H	O	Thymine	F	H
CF_3	O-amino acid	H	O	Uracil	F	H
CF_3	O-amino acid	H	O	Guanine	F	H
CF_3	O-amino acid	H	O	Cytosine	F	H
CF_3	O-amino acid	H	O	Adenine	F	H
CF_3	O-amino acid	H	O	Hypoxanthine	F	H
CF_3	O-amino acid	H	O	5-Fluorouracil	F	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-Aminoadenine	F	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	H	O	Thymine	F	O-amino acid
CF_3	O-amino acid	H	O	Uracil	F	O-amino acid
CF_3	O-amino acid	H	O	Guanine	F	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	F	O-amino acid
CF_3	O-amino acid	H	O	Adenine	F	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	O	Thymine	F	O-acyl
CF_3	O-amino acid	H	O	Uracil	F	O-acyl
CF_3	O-amino acid	H	O	Guanine	F	O-acyl
CF_3	O-amino acid	H	O	Cytosine	F	O-acyl
CF_3	O-amino acid	H	O	Adenine	F	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	O	Thymine	F	OH
CF_3	O-amino acid	H	O	Uracil	F	OH
CF_3	O-amino acid	H	O	Guanine	F	OH
CF_3	O-amino acid	H	O	Cytosine	F	OH
CF_3	O-amino acid	H	O	Adenine	F	OH
CF_3	O-amino acid	H	O	Hypoxanthine	F	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	F	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	F	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	F	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	F	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	F	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	H	O	Thymine	Br	H
CF_3	O-amino acid	H	O	Uracil	Br	H
CF_3	O-amino acid	H	O	Guanine	Br	H
CF_3	O-amino acid	H	O	Cytosine	Br	H
CF_3	O-amino acid	H	O	Adenine	Br	H
CF_3	O-amino acid	H	O	Hypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	H	O	Thymine	Br	O-amino acid
CF_3	O-amino acid	H	O	Uracil	Br	O-amino acid
CF_3	O-amino acid	H	O	Guanine	Br	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	Adenine	Br	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	O	Thymine	Br	O-acyl
CF_3	O-amino acid	H	O	Uracil	Br	O-acyl
CF_3	O-amino acid	H	O	Guanine	Br	O-acyl
CF_3	O-amino acid	H	O	Cytosine	Br	O-acyl
CF_3	O-amino acid	H	O	Adenine	Br	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	O	Thymine	Br	OH
CF_3	O-amino acid	H	O	Uracil	Br	OH
CF_3	O-amino acid	H	O	Guanine	Br	OH
CF_3	O-amino acid	H	O	Cytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	Adenine	Br	OH
CF_3	O-amino acid	H	O	Hypoxanthine	Br	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	Br	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	Br	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	H	O	Thymine	Cl	H
CF_3	O-amino acid	H	O	Uracil	Cl	H
CF_3	O-amino acid	H	O	Guanine	Cl	H
CF_3	O-amino acid	H	O	Cytosine	Cl	H
CF_3	O-amino acid	H	O	Adenine	Cl	H
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	H
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	H	O	Thymine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Uracil	Cl	O-amino acid
CF_3	O-amino acid	H	O	Guanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Adenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	O	Thymine	Cl	O-acyl
CF_3	O-amino acid	H	O	Uracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	Guanine	Cl	O-acyl
CF_3	O-amino acid	H	O	Cytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	Adenine	Cl	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	O	Thymine	Cl	OH
CF_3	O-amino acid	H	O	Uracil	Cl	OH
CF_3	O-amino acid	H	O	Guanine	Cl	OH
CF_3	O-amino acid	H	O	Cytosine	Cl	OH
CF_3	O-amino acid	H	O	Adenine	Cl	OH
CF_3	O-amino acid	H	O	Hypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	O	Thymine	H	H
CF_3	O-amino acid	H	O	Uracil	H	H
CF_3	O-amino acid	H	O	Guanine	H	H
CF_3	O-amino acid	H	O	Cytosine	H	H
CF_3	O-amino acid	H	O	Adenine	H	H
CF_3	O-amino acid	H	O	Hypoxanthine	H	H
CF_3	O-amino acid	H	O	5-Fluorouracil	H	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-Aminoadenine	H	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	Thymine	H	O-amino acid
CF_3	O-amino acid	H	O	Uracil	H	O-amino acid
CF_3	O-amino acid	H	O	Guanine	H	O-amino acid
CF_3	O-amino acid	H	O	Cytosine	H	O-amino acid
CF_3	O-amino acid	H	O	Adenine	H	O-amino acid
CF_3	O-amino acid	H	O	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	O	Thymine	H	O-acyl
CF_3	O-amino acid	H	O	Uracil	H	O-acyl
CF_3	O-amino acid	H	O	Guanine	H	O-acyl
CF_3	O-amino acid	H	O	Cytosine	H	O-acyl
CF_3	O-amino acid	H	O	Adenine	H	O-acyl
CF_3	O-amino acid	H	O	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	O	Thymine	H	OH
CF_3	O-amino acid	H	O	Uracil	H	OH
CF_3	O-amino acid	H	O	Guanine	H	OH
CF_3	O-amino acid	H	O	Cytosine	H	OH
CF_3	O-amino acid	H	O	Adenine	H	OH
CF_3	O-amino acid	H	O	Hypoxanthine	H	OH
CF_3	O-amino acid	H	O	5-Fluorouracil	H	OH
CF_3	O-amino acid	H	O	8-Fluoroguanine	H	OH
CF_3	O-amino acid	H	O	5-Fluorocytosine	H	OH
CF_3	O-amino acid	H	O	8-Fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-Fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-Aminoadenine	H	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylguanine	H	OH
CF_3	O-amino acid	H	O	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyladenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	H	O	Thymine	OH	H
CF_3	O-amino acid	H	O	Uracil	OH	H
CF_3	O-amino acid	H	O	Guanine	OH	H
CF_3	O-amino acid	H	O	Cytosine	OH	H
CF_3	O-amino acid	H	O	Adenine	OH	H
CF_3	O-amino acid	H	O	Hypoxanthine	OH	H
CF_3	O-amino acid	H	O	5-Fluorouracil	OH	H
CF_3	O-amino acid	H	O	8-Fluoroguanine	OH	H
CF_3	O-amino acid	H	O	5-Fluorocytosine	OH	H
CF_3	O-amino acid	H	O	8-Fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-Fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-Aminoadenine	OH	H
CF_3	O-amino acid	H	O	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylguanine	OH	H
CF_3	O-amino acid	H	O	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyladenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	H	O	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	H	O	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	O	2-N-acetylaminohypoxanthine	OH	H
CF_3	OH	F	O	Thymine	F	O-amino acid
CF_3	OH	F	O	Uracil	F	O-amino acid
CF_3	OH	F	O	Guanine	F	O-amino acid
CF_3	OH	F	O	Cytosine	F	O-amino acid
CF_3	OH	F	O	Adenine	F	O-amino acid
CF_3	OH	F	O	Hypoxanthine	F	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	F	O	Thymine	F	O-acyl
CF_3	OH	F	O	Uracil	F	O-acyl
CF_3	OH	F	O	Guanine	F	O-acyl
CF_3	OH	F	O	Cytosine	F	O-acyl
CF_3	OH	F	O	Adenine	F	O-acyl
CF_3	OH	F	O	Hypoxanthine	F	O-acyl
CF_3	OH	F	O	5-Fluorouracil	F	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-Aminoadenine	F	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	F	O	Thymine	Br	O-amino acid
CF_3	OH	F	O	Uracil	Br	O-amino acid
CF_3	OH	F	O	Guanine	Br	O-amino acid
CF_3	OH	F	O	Cytosine	Br	O-amino acid
CF_3	OH	F	O	Adenine	Br	O-amino acid
CF_3	OH	F	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	F	O	Thymine	Br	O-acyl
CF_3	OH	F	O	Uracil	Br	O-acyl
CF_3	OH	F	O	Guanine	Br	O-acyl
CF_3	OH	F	O	Cytosine	Br	O-acyl
CF_3	OH	F	O	Adenine	Br	O-acyl
CF_3	OH	F	O	Hypoxanthine	Br	O-acyl
CF_3	OH	F	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	F	O	Thymine	Cl	O-amino acid
CF_3	OH	F	O	Uracil	Cl	O-amino acid
CF_3	OH	F	O	Guanine	Cl	O-amino acid
CF_3	OH	F	O	Cytosine	Cl	O-amino acid
CF_3	OH	F	O	Adenine	Cl	O-amino acid
CF_3	OH	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	O	Thymine	Cl	O-acyl
CF_3	OH	F	O	Uracil	Cl	O-acyl
CF_3	OH	F	O	Guanine	Cl	O-acyl
CF_3	OH	F	O	Cytosine	Cl	O-acyl
CF_3	OH	F	O	Adenine	Cl	O-acyl
CF_3	OH	F	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	F	O	Thymine	H	O-amino acid
CF_3	OH	F	O	Uracil	H	O-amino acid
CF_3	OH	F	O	Guanine	H	O-amino acid
CF_3	OH	F	O	Cytosine	H	O-amino acid
CF_3	OH	F	O	Adenine	H	O-amino acid
CF_3	OH	F	O	Hypoxanthine	H	O-amino acid
CF_3	OH	F	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	F	O	5-Fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	F	O	Thymine	H	O-acyl
CF_3	OH	F	O	Uracil	H	O-acyl
CF_3	OH	F	O	Guanine	H	O-acyl
CF_3	OH	F	O	Cytosine	H	O-acyl
CF_3	OH	F	O	Adenine	H	O-acyl
CF_3	OH	F	O	Hypoxanthine	H	O-acyl
CF_3	OH	F	O	5-Fluorouracil	H	O-acyl
CF_3	OH	F	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	F	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	F	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-Aminoadenine	H	O-acyl
CF_3	OH	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	F	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Br	O	Thymine	F	O-amino acid
CF_3	OH	Br	O	Uracil	F	O-amino acid
CF_3	OH	Br	O	Guanine	F	O-amino acid
CF_3	OH	Br	O	Cytosine	F	O-amino acid
CF_3	OH	Br	O	Adenine	F	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	F	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Br	O	Thymine	F	O-acyl
CF_3	OH	Br	O	Uracil	F	O-acyl
CF_3	OH	Br	O	Guanine	F	O-acyl
CF_3	OH	Br	O	Cytosine	F	O-acyl
CF_3	OH	Br	O	Adenine	F	O-acyl
CF_3	OH	Br	O	Hypoxanthine	F	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	F	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Br	O	Thymine	Br	O-amino acid
CF_3	OH	Br	O	Uracil	Br	O-amino acid
CF_3	OH	Br	O	Guanine	Br	O-amino acid
CF_3	OH	Br	O	Cytosine	Br	O-amino acid
CF_3	OH	Br	O	Adenine	Br	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	O	Thymine	Br	O-acyl
CF_3	OH	Br	O	Uracil	Br	O-acyl
CF_3	OH	Br	O	Guanine	Br	O-acyl
CF_3	OH	Br	O	Cytosine	Br	O-acyl
CF_3	OH	Br	O	Adenine	Br	O-acyl
CF_3	OH	Br	O	Hypoxanthine	Br	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Br	O	Thymine	Cl	O-amino acid
CF_3	OH	Br	O	Uracil	Cl	O-amino acid
CF_3	OH	Br	O	Guanine	Cl	O-amino acid
CF_3	OH	Br	O	Cytosine	Cl	O-amino acid
CF_3	OH	Br	O	Adenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	O	Thymine	Cl	O-acyl
CF_3	OH	Br	O	Uracil	Cl	O-acyl
CF_3	OH	Br	O	Guanine	Cl	O-acyl
CF_3	OH	Br	O	Cytosine	Cl	O-acyl
CF_3	OH	Br	O	Adenine	Cl	O-acyl
CF_3	OH	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	O	Thymine	H	O-amino acid
CF_3	OH	Br	O	Uracil	H	O-amino acid
CF_3	OH	Br	O	Guanine	H	O-amino acid
CF_3	OH	Br	O	Cytosine	H	O-amino acid
CF_3	OH	Br	O	Adenine	H	O-amino acid
CF_3	OH	Br	O	Hypoxanthine	H	O-amino acid
CF_3	OH	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Br	O	Thymine	H	O-acyl
CF_3	OH	Br	O	Uracil	H	O-acyl
CF_3	OH	Br	O	Guanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	O	Cytosine	H	O-acyl
CF_3	OH	Br	O	Adenine	H	O-acyl
CF_3	OH	Br	O	Hypoxanthine	H	O-acyl
CF_3	OH	Br	O	5-Fluorouracil	H	O-acyl
CF_3	OH	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-Aminoadenine	H	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	Thymine	F	O-amino acid
CF_3	OH	Cl	O	Uracil	F	O-amino acid
CF_3	OH	Cl	O	Guanine	F	O-amino acid
CF_3	OH	Cl	O	Cytosine	F	O-amino acid
CF_3	OH	Cl	O	Adenine	F	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	O	Thymine	F	O-acyl
CF_3	OH	Cl	O	Uracil	F	O-acyl
CF_3	OH	Cl	O	Guanine	F	O-acyl
CF_3	OH	Cl	O	Cytosine	F	O-acyl
CF_3	OH	Cl	O	Adenine	F	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	F	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Cl	O	Thymine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	Uracil	Br	O-amino acid
CF_3	OH	Cl	O	Guanine	Br	O-amino acid
CF_3	OH	Cl	O	Cytosine	Br	O-amino acid
CF_3	OH	Cl	O	Adenine	Br	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	O	Thymine	Br	O-acyl
CF_3	OH	Cl	O	Uracil	Br	O-acyl
CF_3	OH	Cl	O	Guanine	Br	O-acyl
CF_3	OH	Cl	O	Cytosine	Br	O-acyl
CF_3	OH	Cl	O	Adenine	Br	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	O	Thymine	Cl	O-amino acid
CF_3	OH	Cl	O	Uracil	Cl	O-amino acid
CF_3	OH	Cl	O	Guanine	Cl	O-amino acid
CF_3	OH	Cl	O	Cytosine	Cl	O-amino acid
CF_3	OH	Cl	O	Adenine	Cl	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	O	Thymine	Cl	O-acyl
CF_3	OH	Cl	O	Uracil	Cl	O-acyl
CF_3	OH	Cl	O	Guanine	Cl	O-acyl
CF_3	OH	Cl	O	Cytosine	Cl	O-acyl
CF_3	OH	Cl	O	Adenine	Cl	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	O	Thymine	H	O-amino acid
CF_3	OH	Cl	O	Uracil	H	O-amino acid
CF_3	OH	Cl	O	Guanine	H	O-amino acid
CF_3	OH	Cl	O	Cytosine	H	O-amino acid
CF_3	OH	Cl	O	Adenine	H	O-amino acid
CF_3	OH	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	O	Thymine	H	O-acyl
CF_3	OH	Cl	O	Uracil	H	O-acyl
CF_3	OH	Cl	O	Guanine	H	O-acyl
CF_3	OH	Cl	O	Cytosine	H	O-acyl
CF_3	OH	Cl	O	Adenine	H	O-acyl
CF_3	OH	Cl	O	Hypoxanthine	H	O-acyl
CF_3	OH	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	OH	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	OH	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	H	O	Thymine	F	O-amino acid
CF_3	OH	H	O	Uracil	F	O-amino acid
CF_3	OH	H	O	Guanine	F	O-amino acid
CF_3	OH	H	O	Cytosine	F	O-amino acid
CF_3	OH	H	O	Adenine	F	O-amino acid
CF_3	OH	H	O	Hypoxanthine	F	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	F	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	F	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	H	O	Thymine	F	O-acyl
CF_3	OH	H	O	Uracil	F	O-acyl
CF_3	OH	H	O	Guanine	F	O-acyl
CF_3	OH	H	O	Cytosine	F	O-acyl
CF_3	OH	H	O	Adenine	F	O-acyl
CF_3	OH	H	O	Hypoxanthine	F	O-acyl
CF_3	OH	H	O	5-Fluorouracil	F	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	F	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	F	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	F	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-Aminoadenine	F	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	F	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	F	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	H	O	Thymine	Br	O-amino acid
CF_3	OH	H	O	Uracil	Br	O-amino acid
CF_3	OH	H	O	Guanine	Br	O-amino acid
CF_3	OH	H	O	Cytosine	Br	O-amino acid
CF_3	OH	H	O	Adenine	Br	O-amino acid
CF_3	OH	H	O	Hypoxanthine	Br	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	H	O	Thymine	Br	O-acyl
CF_3	OH	H	O	Uracil	Br	O-acyl
CF_3	OH	H	O	Guanine	Br	O-acyl
CF_3	OH	H	O	Cytosine	Br	O-acyl
CF_3	OH	H	O	Adenine	Br	O-acyl
CF_3	OH	H	O	Hypoxanthine	Br	O-acyl
CF_3	OH	H	O	5-Fluorouracil	Br	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-Aminoadenine	Br	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	H	O	Thymine	Cl	O-amino acid
CF_3	OH	H	O	Uracil	Cl	O-amino acid
CF_3	OH	H	O	Guanine	Cl	O-amino acid
CF_3	OH	H	O	Cytosine	Cl	O-amino acid
CF_3	OH	H	O	Adenine	Cl	O-amino acid
CF_3	OH	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	O	Thymine	Cl	O-acyl
CF_3	OH	H	O	Uracil	Cl	O-acyl
CF_3	OH	H	O	Guanine	Cl	O-acyl
CF_3	OH	H	O	Cytosine	Cl	O-acyl
CF_3	OH	H	O	Adenine	Cl	O-acyl
CF_3	OH	H	O	Hypoxanthine	Cl	O-acyl
CF_3	OH	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	H	O	Thymine	H	O-amino acid
CF_3	OH	H	O	Uracil	H	O-amino acid
CF_3	OH	H	O	Guanine	H	O-amino acid
CF_3	OH	H	O	Cytosine	H	O-amino acid
CF_3	OH	H	O	Adenine	H	O-amino acid
CF_3	OH	H	O	Hypoxanthine	H	O-amino acid
CF_3	OH	H	O	5-Fluorouracil	H	O-amino acid
CF_3	OH	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	OH	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	OH	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-Aminoadenine	H	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	OH	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	H	O	Thymine	H	O-acyl
CF_3	OH	H	O	Uracil	H	O-acyl
CF_3	OH	H	O	Guanine	H	O-acyl
CF_3	OH	H	O	Cytosine	H	O-acyl
CF_3	OH	H	O	Adenine	H	O-acyl
CF_3	OH	H	O	Hypoxanthine	H	O-acyl
CF_3	OH	H	O	5-Fluorouracil	H	O-acyl
CF_3	OH	H	O	8-Fluoroguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	O	5-Fluorocytosine	H	O-acyl
CF_3	OH	H	O	8-Fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-Fluoroadenine	H	O-acyl
CF_3	OH	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-Aminoadenine	H	O-acyl
CF_3	OH	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-N-acetylguanine	H	O-acyl
CF_3	OH	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	OH	H	O	6-N-acetyladenine	H	O-acyl
CF_3	OH	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	F	O	Thymine	F	O-amino acid
CF_3	H	F	O	Uracil	F	O-amino acid
CF_3	H	F	O	Guanine	F	O-amino acid
CF_3	H	F	O	Cytosine	F	O-amino acid
CF_3	H	F	O	Adenine	F	O-amino acid
CF_3	H	F	O	Hypoxanthine	F	O-amino acid
CF_3	H	F	O	5-Fluorouracil	F	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-Aminoadenine	F	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	F	O	Thymine	F	O-acyl
CF_3	H	F	O	Uracil	F	O-acyl
CF_3	H	F	O	Guanine	F	O-acyl
CF_3	H	F	O	Cytosine	F	O-acyl
CF_3	H	F	O	Adenine	F	O-acyl
CF_3	H	F	O	Hypoxanthine	F	O-acyl
CF_3	H	F	O	5-Fluorouracil	F	O-acyl
CF_3	H	F	O	8-Fluoroguanine	F	O-acyl
CF_3	H	F	O	5-Fluorocytosine	F	O-acyl
CF_3	H	F	O	8-Fluoroadenine	F	O-acyl
CF_3	H	F	O	2-Fluoroadenine	F	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2-Aminoadenine	F	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	F	O	2-N-acetylguanine	F	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	F	O	6-N-acetyladenine	F	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	F	O	Thymine	Br	O-amino acid
CF_3	H	F	O	Uracil	Br	O-amino acid
CF_3	H	F	O	Guanine	Br	O-amino acid
CF_3	H	F	O	Cytosine	Br	O-amino acid
CF_3	H	F	O	Adenine	Br	O-amino acid
CF_3	H	F	O	Hypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	F	O	Thymine	Br	O-acyl
CF_3	H	F	O	Uracil	Br	O-acyl
CF_3	H	F	O	Guanine	Br	O-acyl
CF_3	H	F	O	Cytosine	Br	O-acyl
CF_3	H	F	O	Adenine	Br	O-acyl
CF_3	H	F	O	Hypoxanthine	Br	O-acyl
CF_3	H	F	O	5-Fluorouracil	Br	O-acyl
CF_3	H	F	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	F	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	F	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-Aminoadenine	Br	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	F	O	Thymine	Cl	O-amino acid
CF_3	H	F	O	Uracil	Cl	O-amino acid
CF_3	H	F	O	Guanine	Cl	O-amino acid
CF_3	H	F	O	Cytosine	Cl	O-amino acid
CF_3	H	F	O	Adenine	Cl	O-amino acid
CF_3	H	F	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	F	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	F	O	Thymine	Cl	O-acyl
CF_3	H	F	O	Uracil	Cl	O-acyl
CF_3	H	F	O	Guanine	Cl	O-acyl
CF_3	H	F	O	Cytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	Adenine	Cl	O-acyl
CF_3	H	F	O	Hypoxanthine	Cl	O-acyl
CF_3	H	F	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	F	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	F	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	F	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	F	O	Thymine	H	O-amino acid
CF_3	H	F	O	Uracil	H	O-amino acid
CF_3	H	F	O	Guanine	H	O-amino acid
CF_3	H	F	O	Cytosine	H	O-amino acid
CF_3	H	F	O	Adenine	H	O-amino acid
CF_3	H	F	O	Hypoxanthine	H	O-amino acid
CF_3	H	F	O	5-Fluorouracil	H	O-amino acid
CF_3	H	F	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	F	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	F	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	F	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	F	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-Aminoadenine	H	O-amino acid
CF_3	H	F	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-Aminohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	F	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	F	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	F	O	Thymine	H	O-acyl
CF_3	H	F	O	Uracil	H	O-acyl
CF_3	H	F	O	Guanine	H	O-acyl
CF_3	H	F	O	Cytosine	H	O-acyl
CF_3	H	F	O	Adenine	H	O-acyl
CF_3	H	F	O	Hypoxanthine	H	O-acyl
CF_3	H	F	O	5-Fluorouracil	H	O-acyl
CF_3	H	F	O	8-Fluoroguanine	H	O-acyl
CF_3	H	F	O	5-Fluorocytosine	H	O-acyl
CF_3	H	F	O	8-Fluoroadenine	H	O-acyl
CF_3	H	F	O	2-Fluoroadenine	H	O-acyl
CF_3	H	F	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	F	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2-Aminoadenine	H	O-acyl
CF_3	H	F	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	F	O	2-N-acetylguanine	H	O-acyl
CF_3	H	F	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	F	O	6-N-acetyladenine	H	O-acyl
CF_3	H	F	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	F	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	F	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	F	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Br	O	Thymine	F	O-amino acid
CF_3	H	Br	O	Uracil	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	Guanine	F	O-amino acid
CF_3	H	Br	O	Cytosine	F	O-amino acid
CF_3	H	Br	O	Adenine	F	O-amino acid
CF_3	H	Br	O	Hypoxanthine	F	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	F	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	F	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Br	O	Thymine	F	O-acyl
CF_3	H	Br	O	Uracil	F	O-acyl
CF_3	H	Br	O	Guanine	F	O-acyl
CF_3	H	Br	O	Cytosine	F	O-acyl
CF_3	H	Br	O	Adenine	F	O-acyl
CF_3	H	Br	O	Hypoxanthine	F	O-acyl
CF_3	H	Br	O	5-Fluorouracil	F	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	F	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	F	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	F	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-Aminoadenine	F	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	F	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	F	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Br	O	Thymine	Br	O-amino acid
CF_3	H	Br	O	Uracil	Br	O-amino acid
CF_3	H	Br	O	Guanine	Br	O-amino acid
CF_3	H	Br	O	Cytosine	Br	O-amino acid
CF_3	H	Br	O	Adenine	Br	O-amino acid
CF_3	H	Br	O	Hypoxanthine	Br	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	Thymine	Br	O-acyl
CF_3	H	Br	O	Uracil	Br	O-acyl
CF_3	H	Br	O	Guanine	Br	O-acyl
CF_3	H	Br	O	Cytosine	Br	O-acyl
CF_3	H	Br	O	Adenine	Br	O-acyl
CF_3	H	Br	O	Hypoxanthine	Br	O-acyl
CF_3	H	Br	O	5-Fluorouracil	Br	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-Aminoadenine	Br	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Br	O	Thymine	Cl	O-amino acid
CF_3	H	Br	O	Uracil	Cl	O-amino acid
CF_3	H	Br	O	Guanine	Cl	O-amino acid
CF_3	H	Br	O	Cytosine	Cl	O-amino acid
CF_3	H	Br	O	Adenine	Cl	O-amino acid
CF_3	H	Br	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	O	Thymine	Cl	O-acyl
CF_3	H	Br	O	Uracil	Cl	O-acyl
CF_3	H	Br	O	Guanine	Cl	O-acyl
CF_3	H	Br	O	Cytosine	Cl	O-acyl
CF_3	H	Br	O	Adenine	Cl	O-acyl
CF_3	H	Br	O	Hypoxanthine	Cl	O-acyl
CF_3	H	Br	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Br	O	Thymine	H	O-amino acid
CF_3	H	Br	O	Uracil	H	O-amino acid
CF_3	H	Br	O	Guanine	H	O-amino acid
CF_3	H	Br	O	Cytosine	H	O-amino acid
CF_3	H	Br	O	Adenine	H	O-amino acid
CF_3	H	Br	O	Hypoxanthine	H	O-amino acid
CF_3	H	Br	O	5-Fluorouracil	H	O-amino acid
CF_3	H	Br	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	Br	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	Br	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-Aminoadenine	H	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	Br	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Br	O	Thymine	H	O-acyl
CF_3	H	Br	O	Uracil	H	O-acyl
CF_3	H	Br	O	Guanine	H	O-acyl
CF_3	H	Br	O	Cytosine	H	O-acyl
CF_3	H	Br	O	Adenine	H	O-acyl
CF_3	H	Br	O	Hypoxanthine	H	O-acyl
CF_3	H	Br	O	5-Fluorouracil	H	O-acyl
CF_3	H	Br	O	8-Fluoroguanine	H	O-acyl
CF_3	H	Br	O	5-Fluorocytosine	H	O-acyl
CF_3	H	Br	O	8-Fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-Fluoroadenine	H	O-acyl
CF_3	H	Br	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Br	O	2-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-Aminoadenine	H	O-acyl
CF_3	H	Br	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-N-acetylguanine	H	O-acyl
CF_3	H	Br	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	Br	O	6-N-acetyladenine	H	O-acyl
CF_3	H	Br	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Br	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Br	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Cl	O	Thymine	F	O-amino acid
CF_3	H	Cl	O	Uracil	F	O-amino acid
CF_3	H	Cl	O	Guanine	F	O-amino acid
CF_3	H	Cl	O	Cytosine	F	O-amino acid
CF_3	H	Cl	O	Adenine	F	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	F	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	F	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	F	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Cl	O	Thymine	F	O-acyl
CF_3	H	Cl	O	Uracil	F	O-acyl
CF_3	H	Cl	O	Guanine	F	O-acyl
CF_3	H	Cl	O	Cytosine	F	O-acyl
CF_3	H	Cl	O	Adenine	F	O-acyl
CF_3	H	Cl	O	Hypoxanthine	F	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	F	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	F	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	F	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	F	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	F	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Cl	O	Thymine	Br	O-amino acid
CF_3	H	Cl	O	Uracil	Br	O-amino acid
CF_3	H	Cl	O	Guanine	Br	O-amino acid
CF_3	H	Cl	O	Cytosine	Br	O-amino acid
CF_3	H	Cl	O	Adenine	Br	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	O	Thymine	Br	O-acyl
CF_3	H	Cl	O	Uracil	Br	O-acyl
CF_3	H	Cl	O	Guanine	Br	O-acyl
CF_3	H	Cl	O	Cytosine	Br	O-acyl
CF_3	H	Cl	O	Adenine	Br	O-acyl
CF_3	H	Cl	O	Hypoxanthine	Br	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	Br	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	Br	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Cl	O	Thymine	Cl	O-amino acid
CF_3	H	Cl	O	Uracil	Cl	O-amino acid
CF_3	H	Cl	O	Guanine	Cl	O-amino acid
CF_3	H	Cl	O	Cytosine	Cl	O-amino acid
CF_3	H	Cl	O	Adenine	Cl	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	O	Thymine	Cl	O-acyl
CF_3	H	Cl	O	Uracil	Cl	O-acyl
CF_3	H	Cl	O	Guanine	Cl	O-acyl
CF_3	H	Cl	O	Cytosine	Cl	O-acyl
CF_3	H	Cl	O	Adenine	Cl	O-acyl
CF_3	H	Cl	O	Hypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	O	Thymine	H	O-amino acid
CF_3	H	Cl	O	Uracil	H	O-amino acid
CF_3	H	Cl	O	Guanine	H	O-amino acid
CF_3	H	Cl	O	Cytosine	H	O-amino acid
CF_3	H	Cl	O	Adenine	H	O-amino acid
CF_3	H	Cl	O	Hypoxanthine	H	O-amino acid
CF_3	H	Cl	O	5-Fluorouracil	H	O-amino acid
CF_3	H	Cl	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	Cl	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	Cl	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-Aminoadenine	H	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	Cl	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Cl	O	Thymine	H	O-acyl
CF_3	H	Cl	O	Uracil	H	O-acyl
CF_3	H	Cl	O	Guanine	H	O-acyl
CF_3	H	Cl	O	Cytosine	H	O-acyl
CF_3	H	Cl	O	Adenine	H	O-acyl
CF_3	H	Cl	O	Hypoxanthine	H	O-acyl
CF_3	H	Cl	O	5-Fluorouracil	H	O-acyl
CF_3	H	Cl	O	8-Fluoroguanine	H	O-acyl
CF_3	H	Cl	O	5-Fluorocytosine	H	O-acyl
CF_3	H	Cl	O	8-Fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-Fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-Aminoadenine	H	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylguanine	H	O-acyl
CF_3	H	Cl	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyladenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Cl	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Cl	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	H	O	Thymine	F	O-amino acid
CF_3	H	H	O	Uracil	F	O-amino acid
CF_3	H	H	O	Guanine	F	O-amino acid
CF_3	H	H	O	Cytosine	F	O-amino acid
CF_3	H	H	O	Adenine	F	O-amino acid
CF_3	H	H	O	Hypoxanthine	F	O-amino acid
CF_3	H	H	O	5-Fluorouracil	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-Aminoadenine	F	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	H	O	Thymine	F	O-acyl
CF_3	H	H	O	Uracil	F	O-acyl
CF_3	H	H	O	Guanine	F	O-acyl
CF_3	H	H	O	Cytosine	F	O-acyl
CF_3	H	H	O	Adenine	F	O-acyl
CF_3	H	H	O	Hypoxanthine	F	O-acyl
CF_3	H	H	O	5-Fluorouracil	F	O-acyl
CF_3	H	H	O	8-Fluoroguanine	F	O-acyl
CF_3	H	H	O	5-Fluorocytosine	F	O-acyl
CF_3	H	H	O	8-Fluoroadenine	F	O-acyl
CF_3	H	H	O	2-Fluoroadenine	F	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2-Aminoadenine	F	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	H	O	2-N-acetylguanine	F	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	H	O	6-N-acetyladenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	H	O	Thymine	Br	O-amino acid
CF_3	H	H	O	Uracil	Br	O-amino acid
CF_3	H	H	O	Guanine	Br	O-amino acid
CF_3	H	H	O	Cytosine	Br	O-amino acid
CF_3	H	H	O	Adenine	Br	O-amino acid
CF_3	H	H	O	Hypoxanthine	Br	O-amino acid
CF_3	H	H	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-Aminoadenine	Br	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	H	O	Thymine	Br	O-acyl
CF_3	H	H	O	Uracil	Br	O-acyl
CF_3	H	H	O	Guanine	Br	O-acyl
CF_3	H	H	O	Cytosine	Br	O-acyl
CF_3	H	H	O	Adenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	Hypoxanthine	Br	O-acyl
CF_3	H	H	O	5-Fluorouracil	Br	O-acyl
CF_3	H	H	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	H	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	H	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-Aminoadenine	Br	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	H	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	H	O	Thymine	Cl	O-amino acid
CF_3	H	H	O	Uracil	Cl	O-amino acid
CF_3	H	H	O	Guanine	Cl	O-amino acid
CF_3	H	H	O	Cytosine	Cl	O-amino acid
CF_3	H	H	O	Adenine	Cl	O-amino acid
CF_3	H	H	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	H	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	H	O	Thymine	Cl	O-acyl
CF_3	H	H	O	Uracil	Cl	O-acyl
CF_3	H	H	O	Guanine	Cl	O-acyl
CF_3	H	H	O	Cytosine	Cl	O-acyl
CF_3	H	H	O	Adenine	Cl	O-acyl
CF_3	H	H	O	Hypoxanthine	Cl	O-acyl
CF_3	H	H	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	H	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	H	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	H	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	H	O	Thymine	H	O-amino acid
CF_3	H	H	O	Uracil	H	O-amino acid
CF_3	H	H	O	Guanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	Cytosine	H	O-amino acid
CF_3	H	H	O	Adenine	H	O-amino acid
CF_3	H	H	O	Hypoxanthine	H	O-amino acid
CF_3	H	H	O	5-Fluorouracil	H	O-amino acid
CF_3	H	H	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	H	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	H	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	H	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	H	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-Aminoadenine	H	O-amino acid
CF_3	H	H	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	H	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	H	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	H	O	Thymine	H	O-acyl
CF_3	H	H	O	Uracil	H	O-acyl
CF_3	H	H	O	Guanine	H	O-acyl
CF_3	H	H	O	Cytosine	H	O-acyl
CF_3	H	H	O	Adenine	H	O-acyl
CF_3	H	H	O	Hypoxanthine	H	O-acyl
CF_3	H	H	O	5-Fluorouracil	H	O-acyl
CF_3	H	H	O	8-Fluoroguanine	H	O-acyl
CF_3	H	H	O	5-Fluorocytosine	H	O-acyl
CF_3	H	H	O	8-Fluoroadenine	H	O-acyl
CF_3	H	H	O	2-Fluoroadenine	H	O-acyl
CF_3	H	H	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	H	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2-Aminoadenine	H	O-acyl
CF_3	H	H	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	O	2-Amino-8-fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	H	O	2-N-acetylguanine	H	O-acyl
CF_3	H	H	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	H	O	6-N-acetyladenine	H	O-acyl
CF_3	H	H	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	H	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	H	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	H	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	O	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	OH	O	Thymine	F	O-amino acid
CF_3	H	OH	O	Uracil	F	O-amino acid
CF_3	H	OH	O	Guanine	F	O-amino acid
CF_3	H	OH	O	Cytosine	F	O-amino acid
CF_3	H	OH	O	Adenine	F	O-amino acid
CF_3	H	OH	O	Hypoxanthine	F	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	F	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	F	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	F	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	F	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	F	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	OH	O	Thymine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	Uracil	F	O-acyl
CF_3	H	OH	O	Guanine	F	O-acyl
CF_3	H	OH	O	Cytosine	F	O-acyl
CF_3	H	OH	O	Adenine	F	O-acyl
CF_3	H	OH	O	Hypoxanthine	F	O-acyl
CF_3	H	OH	O	5-Fluorouracil	F	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	F	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	F	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	F	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	F	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-Aminoadenine	F	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	F	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	F	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	F	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	OH	O	Thymine	Br	O-amino acid
CF_3	H	OH	O	Uracil	Br	O-amino acid
CF_3	H	OH	O	Guanine	Br	O-amino acid
CF_3	H	OH	O	Cytosine	Br	O-amino acid
CF_3	H	OH	O	Adenine	Br	O-amino acid
CF_3	H	OH	O	Hypoxanthine	Br	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	Br	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	Br	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	Br	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	Br	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	OH	O	Thymine	Br	O-acyl
CF_3	H	OH	O	Uracil	Br	O-acyl
CF_3	H	OH	O	Guanine	Br	O-acyl
CF_3	H	OH	O	Cytosine	Br	O-acyl
CF_3	H	OH	O	Adenine	Br	O-acyl
CF_3	H	OH	O	Hypoxanthine	Br	O-acyl
CF_3	H	OH	O	5-Fluorouracil	Br	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	Br	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	Br	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-Aminoadenine	Br	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	Br	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	OH	O	Thymine	Cl	O-amino acid
CF_3	H	OH	O	Uracil	Cl	O-amino acid
CF_3	H	OH	O	Guanine	Cl	O-amino acid
CF_3	H	OH	O	Cytosine	Cl	O-amino acid
CF_3	H	OH	O	Adenine	Cl	O-amino acid
CF_3	H	OH	O	Hypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	Cl	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	O	Thymine	Cl	O-acyl
CF_3	H	OH	O	Uracil	Cl	O-acyl
CF_3	H	OH	O	Guanine	Cl	O-acyl
CF_3	H	OH	O	Cytosine	Cl	O-acyl
CF_3	H	OH	O	Adenine	Cl	O-acyl
CF_3	H	OH	O	Hypoxanthine	Cl	O-acyl
CF_3	H	OH	O	5-Fluorouracil	Cl	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	Cl	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	Cl	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-Aminoadenine	Cl	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	Cl	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	OH	O	Thymine	H	O-amino acid
CF_3	H	OH	O	Uracil	H	O-amino acid
CF_3	H	OH	O	Guanine	H	O-amino acid
CF_3	H	OH	O	Cytosine	H	O-amino acid
CF_3	H	OH	O	Adenine	H	O-amino acid
CF_3	H	OH	O	Hypoxanthine	H	O-amino acid
CF_3	H	OH	O	5-Fluorouracil	H	O-amino acid
CF_3	H	OH	O	8-Fluoroguanine	H	O-amino acid
CF_3	H	OH	O	5-Fluorocytosine	H	O-amino acid
CF_3	H	OH	O	8-Fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-Fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-Aminoadenine	H	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylguanine	H	O-amino acid
CF_3	H	OH	O	4-N-acetylcytosine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyladenine	H	O-amino acid
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylaminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	OH	O	Thymine	H	O-acyl
CF_3	H	OH	O	Uracil	H	O-acyl
CF_3	H	OH	O	Guanine	H	O-acyl
CF_3	H	OH	O	Cytosine	H	O-acyl
CF_3	H	OH	O	Adenine	H	O-acyl
CF_3	H	OH	O	Hypoxanthine	H	O-acyl
CF_3	H	OH	O	5-Fluorouracil	H	O-acyl
CF_3	H	OH	O	8-Fluoroguanine	H	O-acyl
CF_3	H	OH	O	5-Fluorocytosine	H	O-acyl
CF_3	H	OH	O	8-Fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-Fluoroadenine	H	O-acyl
CF_3	H	OH	O	2,8-Difluoroadenine	H	O-acyl
CF_3	H	OH	O	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-Aminoadenine	H	O-acyl
CF_3	H	OH	O	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-Aminohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-N-acetylguanine	H	O-acyl
CF_3	H	OH	O	4-N-acetylcytosine	H	O-acyl
CF_3	H	OH	O	6-N-acetyladenine	H	O-acyl
CF_3	H	OH	O	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	OH	O	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	OH	O	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	O	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	O	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	Thymine	F	H
CH_3	O-acyl	F	S	Uracil	F	H
CH_3	O-acyl	F	S	Guanine	F	H
CH_3	O-acyl	F	S	Cytosine	F	H
CH_3	O-acyl	F	S	Adenine	F	H
CH_3	O-acyl	F	S	Hypoxanthine	F	H
CH_3	O-acyl	F	S	5-Fluorouracil	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	8-Fluoroguanine	F	H
CH_3	O-acyl	F	S	5-Fluorocytosine	F	H
CH_3	O-acyl	F	S	8-Fluoroadenine	F	H
CH_3	O-acyl	F	S	2-Fluoroadenine	F	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2-Aminoadenine	F	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	F	S	2-N-acetylguanine	F	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	F	S	6-N-acetyladenine	F	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	F	S	Thymine	F	O-amino acid
CH_3	O-acyl	F	S	Uracil	F	O-amino acid
CH_3	O-acyl	F	S	Guanine	F	O-amino acid
CH_3	O-acyl	F	S	Cytosine	F	O-amino acid
CH_3	O-acyl	F	S	Adenine	F	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	F	S	Thymine	F	O-acyl
CH_3	O-acyl	F	S	Uracil	F	O-acyl
CH_3	O-acyl	F	S	Guanine	F	O-acyl
CH_3	O-acyl	F	S	Cytosine	F	O-acyl
CH_3	O-acyl	F	S	Adenine	F	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	F	S	Thymine	F	OH
CH_3	O-acyl	F	S	Uracil	F	OH
CH_3	O-acyl	F	S	Guanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	Cytosine	F	OH
CH_3	O-acyl	F	S	Adenine	F	OH
CH_3	O-acyl	F	S	Hypoxanthine	F	OH
CH_3	O-acyl	F	S	5-Fluorouracil	F	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-Aminoadenine	F	OH
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	F	S	Thymine	Br	H
CH_3	O-acyl	F	S	Uracil	Br	H
CH_3	O-acyl	F	S	Guanine	Br	H
CH_3	O-acyl	F	S	Cytosine	Br	H
CH_3	O-acyl	F	S	Adenine	Br	H
CH_3	O-acyl	F	S	Hypoxanthine	Br	H
CH_3	O-acyl	F	S	5-Fluorouracil	Br	H
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	2-Aminoadenine	Br	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	F	S	Thymine	Br	O-amino acid
CH_3	O-acyl	F	S	Uracil	Br	O-amino acid
CH_3	O-acyl	F	S	Guanine	Br	O-amino acid
CH_3	O-acyl	F	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	F	S	Adenine	Br	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	F	S	Thymine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	Uracil	Br	O-acyl
CH_3	O-acyl	F	S	Guanine	Br	O-acyl
CH_3	O-acyl	F	S	Cytosine	Br	O-acyl
CH_3	O-acyl	F	S	Adenine	Br	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	F	S	Thymine	Br	OH
CH_3	O-acyl	F	S	Uracil	Br	OH
CH_3	O-acyl	F	S	Guanine	Br	OH
CH_3	O-acyl	F	S	Cytosine	Br	OH
CH_3	O-acyl	F	S	Adenine	Br	OH
CH_3	O-acyl	F	S	Hypoxanthine	Br	OH
CH_3	O-acyl	F	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-Aminoadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	F	S	Thymine	Cl	O-acyl
CH_3	O-acyl	F	S	Uracil	Cl	O-acyl
CH_3	O-acyl	F	S	Guanine	Cl	O-acyl
CH_3	O-acyl	F	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	F	S	Adenine	Cl	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	F	S	Thymine	Cl	OH
CH_3	O-acyl	F	S	Uracil	Cl	OH
CH_3	O-acyl	F	S	Guanine	Cl	OH
CH_3	O-acyl	F	S	Cytosine	Cl	OH
CH_3	O-acyl	F	S	Adenine	Cl	OH
CH_3	O-acyl	F	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	F	S	Thymine	Cl	H
CH_3	O-acyl	F	S	Uracil	Cl	H
CH_3	O-acyl	F	S	Guanine	Cl	H
CH_3	O-acyl	F	S	Cytosine	Cl	H
CH_3	O-acyl	F	S	Adenine	Cl	H
CH_3	O-acyl	F	S	Hypoxanthine	Cl	H
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	F	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	F	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	F	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	F	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	F	S	Thymine	H	H
CH_3	O-acyl	F	S	Uracil	H	H
CH_3	O-acyl	F	S	Guanine	H	H
CH_3	O-acyl	F	S	Cytosine	H	H
CH_3	O-acyl	F	S	Adenine	H	H
CH_3	O-acyl	F	S	Hypoxanthine	H	H
CH_3	O-acyl	F	S	5-Fluorouracil	H	H
CH_3	O-acyl	F	S	8-Fluoroguanine	H	H
CH_3	O-acyl	F	S	5-Fluorocytosine	H	H
CH_3	O-acyl	F	S	8-Fluoroadenine	H	H
CH_3	O-acyl	F	S	2-Fluoroadenine	H	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2-Aminoadenine	H	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	F	S	2-N-acetylguanine	H	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	F	S	6-N-acetyladenine	H	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	F	S	Thymine	H	O-amino acid
CH_3	O-acyl	F	S	Uracil	H	O-amino acid
CH_3	O-acyl	F	S	Guanine	H	O-amino acid
CH_3	O-acyl	F	S	Cytosine	H	O-amino acid
CH_3	O-acyl	F	S	Adenine	H	O-amino acid
CH_3	O-acyl	F	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	F	S	Thymine	H	O-acyl
CH_3	O-acyl	F	S	Uracil	H	O-acyl
CH_3	O-acyl	F	S	Guanine	H	O-acyl
CH_3	O-acyl	F	S	Cytosine	H	O-acyl
CH_3	O-acyl	F	S	Adenine	H	O-acyl
CH_3	O-acyl	F	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	F	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	F	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	F	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	F	S	Thymine	H	OH
CH_3	O-acyl	F	S	Uracil	H	OH
CH_3	O-acyl	F	S	Guanine	H	OH
CH_3	O-acyl	F	S	Cytosine	H	OH
CH_3	O-acyl	F	S	Adenine	H	OH
CH_3	O-acyl	F	S	Hypoxanthine	H	OH
CH_3	O-acyl	F	S	5-Fluorouracil	H	OH
CH_3	O-acyl	F	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	F	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	F	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	F	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-Aminoadenine	H	OH
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	F	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	F	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	F	S	Thymine	OH	H
CH_3	O-acyl	F	S	Uracil	OH	H
CH_3	O-acyl	F	S	Guanine	OH	H
CH_3	O-acyl	F	S	Cytosine	OH	H
CH_3	O-acyl	F	S	Adenine	OH	H
CH_3	O-acyl	F	S	Hypoxanthine	OH	H
CH_3	O-acyl	F	S	5-Fluorouracil	OH	H
CH_3	O-acyl	F	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	F	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	F	S	8-Fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	F	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	F	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	F	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-Aminoadenine	OH	H
CH_3	O-acyl	F	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	F	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	F	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Br	S	Thymine	F	H
CH_3	O-acyl	Br	S	Uracil	F	H
CH_3	O-acyl	Br	S	Guanine	F	H
CH_3	O-acyl	Br	S	Cytosine	F	H
CH_3	O-acyl	Br	S	Adenine	F	H
CH_3	O-acyl	Br	S	Hypoxanthine	F	H
CH_3	O-acyl	Br	S	5-Fluorouracil	F	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-Aminoadenine	F	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Br	S	Thymine	F	O-amino acid
CH_3	O-acyl	Br	S	Uracil	F	O-amino acid
CH_3	O-acyl	Br	S	Guanine	F	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	F	O-amino acid
CH_3	O-acyl	Br	S	Adenine	F	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Br	S	Thymine	F	O-acyl
CH_3	O-acyl	Br	S	Uracil	F	O-acyl
CH_3	O-acyl	Br	S	Guanine	F	O-acyl
CH_3	O-acyl	Br	S	Cytosine	F	O-acyl
CH_3	O-acyl	Br	S	Adenine	F	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Br	S	Thymine	F	OH
CH_3	O-acyl	Br	S	Uracil	F	OH
CH_3	O-acyl	Br	S	Guanine	F	OH
CH_3	O-acyl	Br	S	Cytosine	F	OH
CH_3	O-acyl	Br	S	Adenine	F	OH
CH_3	O-acyl	Br	S	Hypoxanthine	F	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	F	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-Aminoadenine	F	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Br	S	Thymine	Br	H
CH_3	O-acyl	Br	S	Uracil	Br	H
CH_3	O-acyl	Br	S	Guanine	Br	H
CH_3	O-acyl	Br	S	Cytosine	Br	H
CH_3	O-acyl	Br	S	Adenine	Br	H
CH_3	O-acyl	Br	S	Hypoxanthine	Br	H
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Br	S	Thymine	Br	O-amino acid
CH_3	O-acyl	Br	S	Uracil	Br	O-amino acid
CH_3	O-acyl	Br	S	Guanine	Br	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	Adenine	Br	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Br	S	Thymine	Br	O-acyl
CH_3	O-acyl	Br	S	Uracil	Br	O-acyl
CH_3	O-acyl	Br	S	Guanine	Br	O-acyl
CH_3	O-acyl	Br	S	Cytosine	Br	O-acyl
CH_3	O-acyl	Br	S	Adenine	Br	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Br	S	Thymine	Br	OH
CH_3	O-acyl	Br	S	Uracil	Br	OH
CH_3	O-acyl	Br	S	Guanine	Br	OH
CH_3	O-acyl	Br	S	Cytosine	Br	OH
CH_3	O-acyl	Br	S	Adenine	Br	OH
CH_3	O-acyl	Br	S	Hypoxanthine	Br	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Br	S	Thymine	Cl	H
CH_3	O-acyl	Br	S	Uracil	Cl	H
CH_3	O-acyl	Br	S	Guanine	Cl	H
CH_3	O-acyl	Br	S	Cytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	Adenine	Cl	H
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	H
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Br	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	Br	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Br	S	Thymine	Cl	O-acyl
CH_3	O-acyl	Br	S	Uracil	Cl	O-acyl
CH_3	O-acyl	Br	S	Guanine	Cl	O-acyl
CH_3	O-acyl	Br	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	Adenine	Cl	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Br	S	Thymine	Cl	OH
CH_3	O-acyl	Br	S	Uracil	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	Guanine	Cl	OH
CH_3	O-acyl	Br	S	Cytosine	Cl	OH
CH_3	O-acyl	Br	S	Adenine	Cl	OH
CH_3	O-acyl	Br	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Br	S	Thymine	H	H
CH_3	O-acyl	Br	S	Uracil	H	H
CH_3	O-acyl	Br	S	Guanine	H	H
CH_3	O-acyl	Br	S	Cytosine	H	H
CH_3	O-acyl	Br	S	Adenine	H	H
CH_3	O-acyl	Br	S	Hypoxanthine	H	H
CH_3	O-acyl	Br	S	5-Fluorouracil	H	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-Aminoadenine	H	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Br	S	Thymine	H	O-amino acid
CH_3	O-acyl	Br	S	Uracil	H	O-amino acid
CH_3	O-acyl	Br	S	Guanine	H	O-amino acid
CH_3	O-acyl	Br	S	Cytosine	H	O-amino acid
CH_3	O-acyl	Br	S	Adenine	H	O-amino acid
CH_3	O-acyl	Br	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	Thymine	H	O-acyl
CH_3	O-acyl	Br	S	Uracil	H	O-acyl
CH_3	O-acyl	Br	S	Guanine	H	O-acyl
CH_3	O-acyl	Br	S	Cytosine	H	O-acyl
CH_3	O-acyl	Br	S	Adenine	H	O-acyl
CH_3	O-acyl	Br	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Br	S	Thymine	H	OH
CH_3	O-acyl	Br	S	Uracil	H	OH
CH_3	O-acyl	Br	S	Guanine	H	OH
CH_3	O-acyl	Br	S	Cytosine	H	OH
CH_3	O-acyl	Br	S	Adenine	H	OH
CH_3	O-acyl	Br	S	Hypoxanthine	H	OH
CH_3	O-acyl	Br	S	5-Fluorouracil	H	OH
CH_3	O-acyl	Br	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	Br	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	Br	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-Aminoadenine	H	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	Br	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Br	S	Thymine	OH	H
CH_3	O-acyl	Br	S	Uracil	OH	H
CH_3	O-acyl	Br	S	Guanine	OH	H
CH_3	O-acyl	Br	S	Cytosine	OH	H
CH_3	O-acyl	Br	S	Adenine	OH	H
CH_3	O-acyl	Br	S	Hypoxanthine	OH	H
CH_3	O-acyl	Br	S	5-Fluorouracil	OH	H
CH_3	O-acyl	Br	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	Br	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	Br	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-Aminoadenine	OH	H
CH_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	Br	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	Thymine	F	H
CH_3	O-acyl	Cl	S	Uracil	F	H
CH_3	O-acyl	Cl	S	Guanine	F	H
CH_3	O-acyl	Cl	S	Cytosine	F	H
CH_3	O-acyl	Cl	S	Adenine	F	H
CH_3	O-acyl	Cl	S	Hypoxanthine	F	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	Cl	S	Thymine	F	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	F	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	F	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	F	O-amino acid
CH_3	O-acyl	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	F	O-acyl
CH_3	O-acyl	Cl	S	Uracil	F	O-acyl
CH_3	O-acyl	Cl	S	Guanine	F	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	F	O-acyl
CH_3	O-acyl	Cl	S	Adenine	F	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	Cl	S	Thymine	F	OH
CH_3	O-acyl	Cl	S	Uracil	F	OH
CH_3	O-acyl	Cl	S	Guanine	F	OH
CH_3	O-acyl	Cl	S	Cytosine	F	OH
CH_3	O-acyl	Cl	S	Adenine	F	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	F	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	F	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	Cl	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	F	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	Cl	S	Thymine	Br	H
CH_3	O-acyl	Cl	S	Uracil	Br	H
CH_3	O-acyl	Cl	S	Guanine	Br	H
CH_3	O-acyl	Cl	S	Cytosine	Br	H
CH_3	O-acyl	Cl	S	Adenine	Br	H
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	Cl	S	Thymine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	Br	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	Br	O-acyl
CH_3	O-acyl	Cl	S	Uracil	Br	O-acyl
CH_3	O-acyl	Cl	S	Guanine	Br	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	Adenine	Br	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	Cl	S	Thymine	Br	OH
CH_3	O-acyl	Cl	S	Uracil	Br	OH
CH_3	O-acyl	Cl	S	Guanine	Br	OH
CH_3	O-acyl	Cl	S	Cytosine	Br	OH
CH_3	O-acyl	Cl	S	Adenine	Br	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	Cl	S	Thymine	Cl	H
CH_3	O-acyl	Cl	S	Uracil	Cl	H
CH_3	O-acyl	Cl	S	Guanine	Cl	H
CH_3	O-acyl	Cl	S	Cytosine	Cl	H
CH_3	O-acyl	Cl	S	Adenine	Cl	H
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	Cl	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Uracil	Cl	O-acyl
CH_3	O-acyl	Cl	S	Guanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Adenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	Cl	S	Thymine	Cl	OH
CH_3	O-acyl	Cl	S	Uracil	Cl	OH
CH_3	O-acyl	Cl	S	Guanine	Cl	OH
CH_3	O-acyl	Cl	S	Cytosine	Cl	OH
CH_3	O-acyl	Cl	S	Adenine	Cl	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	Cl	S	Thymine	H	H
CH_3	O-acyl	Cl	S	Uracil	H	H
CH_3	O-acyl	Cl	S	Guanine	H	H
CH_3	O-acyl	Cl	S	Cytosine	H	H
CH_3	O-acyl	Cl	S	Adenine	H	H
CH_3	O-acyl	Cl	S	Hypoxanthine	H	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	Cl	S	Thymine	H	O-amino acid
CH_3	O-acyl	Cl	S	Uracil	H	O-amino acid
CH_3	O-acyl	Cl	S	Guanine	H	O-amino acid
CH_3	O-acyl	Cl	S	Cytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	Adenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	Cl	S	Thymine	H	O-acyl
CH_3	O-acyl	Cl	S	Uracil	H	O-acyl
CH_3	O-acyl	Cl	S	Guanine	H	O-acyl
CH_3	O-acyl	Cl	S	Cytosine	H	O-acyl
CH_3	O-acyl	Cl	S	Adenine	H	O-acyl
CH_3	O-acyl	Cl	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	Cl	S	Thymine	H	OH
CH_3	O-acyl	Cl	S	Uracil	H	OH
CH_3	O-acyl	Cl	S	Guanine	H	OH
CH_3	O-acyl	Cl	S	Cytosine	H	OH
CH_3	O-acyl	Cl	S	Adenine	H	OH
CH_3	O-acyl	Cl	S	Hypoxanthine	H	OH
CH_3	O-acyl	Cl	S	5-Fluorouracil	H	OH
CH_3	O-acyl	Cl	S	8-Fluoroguanine	H	OH
CH_3	O-acyl	Cl	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	Cl	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-Aminoadenine	H	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	Cl	S	Thymine	OH	H
CH_3	O-acyl	Cl	S	Uracil	OH	H
CH_3	O-acyl	Cl	S	Guanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	Cl	S	Cytosine	OH	H
CH_3	O-acyl	Cl	S	Adenine	OH	H
CH_3	O-acyl	Cl	S	Hypoxanthine	OH	H
CH_3	O-acyl	Cl	S	5-Fluorouracil	OH	H
CH_3	O-acyl	Cl	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	Cl	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	Cl	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-Aminoadenine	OH	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	Cl	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-acyl	H	S	Thymine	F	H
CH_3	O-acyl	H	S	Uracil	F	H
CH_3	O-acyl	H	S	Guanine	F	H
CH_3	O-acyl	H	S	Cytosine	F	H
CH_3	O-acyl	H	S	Adenine	F	H
CH_3	O-acyl	H	S	Hypoxanthine	F	H
CH_3	O-acyl	H	S	5-Fluorouracil	F	H
CH_3	O-acyl	H	S	8-Fluoroguanine	F	H
CH_3	O-acyl	H	S	5-Fluorocytosine	F	H
CH_3	O-acyl	H	S	8-Fluoroadenine	F	H
CH_3	O-acyl	H	S	2-Fluoroadenine	F	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-acyl	H	S	2-Aminoadenine	F	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	H
CH_3	O-acyl	H	S	2-N-acetylguanine	F	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	H
CH_3	O-acyl	H	S	6-N-acetyladenine	F	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-acyl	H	S	Thymine	F	O-amino acid
CH_3	O-acyl	H	S	Uracil	F	O-amino acid
CH_3	O-acyl	H	S	Guanine	F	O-amino acid
CH_3	O-acyl	H	S	Cytosine	F	O-amino acid
CH_3	O-acyl	H	S	Adenine	F	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	F	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-acyl	H	S	Thymine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	Uracil	F	O-acyl
CH_3	O-acyl	H	S	Guanine	F	O-acyl
CH_3	O-acyl	H	S	Cytosine	F	O-acyl
CH_3	O-acyl	H	S	Adenine	F	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	F	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	F	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	F	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	F	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-acyl	H	S	Thymine	F	OH
CH_3	O-acyl	H	S	Uracil	F	OH
CH_3	O-acyl	H	S	Guanine	F	OH
CH_3	O-acyl	H	S	Cytosine	F	OH
CH_3	O-acyl	H	S	Adenine	F	OH
CH_3	O-acyl	H	S	Hypoxanthine	F	OH
CH_3	O-acyl	H	S	5-Fluorouracil	F	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	F	OH
CH_3	O-acyl	H	S	5-Fluorocytosine	F	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	F	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	F	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-Aminoadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	F	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	F	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	F	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	F	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-acyl	H	S	Thymine	Br	H
CH_3	O-acyl	H	S	Uracil	Br	H
CH_3	O-acyl	H	S	Guanine	Br	H
CH_3	O-acyl	H	S	Cytosine	Br	H
CH_3	O-acyl	H	S	Adenine	Br	H
CH_3	O-acyl	H	S	Hypoxanthine	Br	H
CH_3	O-acyl	H	S	5-Fluorouracil	Br	H
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	H
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	H
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	2-Aminoadenine	Br	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	H
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	H
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-acyl	H	S	Thymine	Br	O-amino acid
CH_3	O-acyl	H	S	Uracil	Br	O-amino acid
CH_3	O-acyl	H	S	Guanine	Br	O-amino acid
CH_3	O-acyl	H	S	Cytosine	Br	O-amino acid
CH_3	O-acyl	H	S	Adenine	Br	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-acyl	H	S	Thymine	Br	O-acyl
CH_3	O-acyl	H	S	Uracil	Br	O-acyl
CH_3	O-acyl	H	S	Guanine	Br	O-acyl
CH_3	O-acyl	H	S	Cytosine	Br	O-acyl
CH_3	O-acyl	H	S	Adenine	Br	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	Br	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-acyl	H	S	Thymine	Br	OH
CH_3	O-acyl	H	S	Uracil	Br	OH
CH_3	O-acyl	H	S	Guanine	Br	OH
CH_3	O-acyl	H	S	Cytosine	Br	OH
CH_3	O-acyl	H	S	Adenine	Br	OH
CH_3	O-acyl	H	S	Hypoxanthine	Br	OH
CH_3	O-acyl	H	S	5-Fluorouracil	Br	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	Br	OH
CH_3	O-acyl	H	S	5-Fluorocytosine	Br	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-Aminoadenine	Br	OH
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	Br	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	Br	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-acyl	H	S	Thymine	Cl	H
CH_3	O-acyl	H	S	Uracil	Cl	H
CH_3	O-acyl	H	S	Guanine	Cl	H
CH_3	O-acyl	H	S	Cytosine	Cl	H
CH_3	O-acyl	H	S	Adenine	Cl	H
CH_3	O-acyl	H	S	Hypoxanthine	Cl	H
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	H
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	H
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	H
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-acyl	H	S	Thymine	Cl	O-amino acid
CH_3	O-acyl	H	S	Uracil	Cl	O-amino acid
CH_3	O-acyl	H	S	Guanine	Cl	O-amino acid
CH_3	O-acyl	H	S	Cytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	Adenine	Cl	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-acyl	H	S	Thymine	Cl	O-acyl
CH_3	O-acyl	H	S	Uracil	Cl	O-acyl
CH_3	O-acyl	H	S	Guanine	Cl	O-acyl
CH_3	O-acyl	H	S	Cytosine	Cl	O-acyl
CH_3	O-acyl	H	S	Adenine	Cl	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-acyl	H	S	Thymine	Cl	OH
CH_3	O-acyl	H	S	Uracil	Cl	OH
CH_3	O-acyl	H	S	Guanine	Cl	OH
CH_3	O-acyl	H	S	Cytosine	Cl	OH
CH_3	O-acyl	H	S	Adenine	Cl	OH
CH_3	O-acyl	H	S	Hypoxanthine	Cl	OH
CH_3	O-acyl	H	S	5-Fluorouracil	Cl	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	Cl	OH
CH_3	O-acyl	H	S	5-Fluorocytosine	Cl	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-Aminoadenine	Cl	OH
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	Cl	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-acyl	H	S	Thymine	H	H
CH_3	O-acyl	H	S	Uracil	H	H
CH_3	O-acyl	H	S	Guanine	H	H
CH_3	O-acyl	H	S	Cytosine	H	H
CH_3	O-acyl	H	S	Adenine	H	H
CH_3	O-acyl	H	S	Hypoxanthine	H	H
CH_3	O-acyl	H	S	5-Fluorouracil	H	H
CH_3	O-acyl	H	S	8-Fluoroguanine	H	H
CH_3	O-acyl	H	S	5-Fluorocytosine	H	H
CH_3	O-acyl	H	S	8-Fluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	2-Fluoroadenine	H	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2-Aminoadenine	H	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	H
CH_3	O-acyl	H	S	2-N-acetylguanine	H	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	H
CH_3	O-acyl	H	S	6-N-acetyladenine	H	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-acyl	H	S	Thymine	H	O-amino acid
CH_3	O-acyl	H	S	Uracil	H	O-amino acid
CH_3	O-acyl	H	S	Guanine	H	O-amino acid
CH_3	O-acyl	H	S	Cytosine	H	O-amino acid
CH_3	O-acyl	H	S	Adenine	H	O-amino acid
CH_3	O-acyl	H	S	Hypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	5-Fluorouracil	H	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-Aminoadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-acyl	H	S	Thymine	H	O-acyl
CH_3	O-acyl	H	S	Uracil	H	O-acyl
CH_3	O-acyl	H	S	Guanine	H	O-acyl
CH_3	O-acyl	H	S	Cytosine	H	O-acyl
CH_3	O-acyl	H	S	Adenine	H	O-acyl
CH_3	O-acyl	H	S	Hypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	5-Fluorouracil	H	O-acyl
CH_3	O-acyl	H	S	8-Fluoroguanine	H	O-acyl
CH_3	O-acyl	H	S	5-Fluorocytosine	H	O-acyl
CH_3	O-acyl	H	S	8-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-Aminoadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylguanine	H	O-acyl
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyladenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-acyl	H	S	Thymine	H	OH
CH_3	O-acyl	H	S	Uracil	H	OH
CH_3	O-acyl	H	S	Guanine	H	OH
CH_3	O-acyl	H	S	Cytosine	H	OH
CH_3	O-acyl	H	S	Adenine	H	OH
CH_3	O-acyl	H	S	Hypoxanthine	H	OH
CH_3	O-acyl	H	S	5-Fluorouracil	H	OH
CH_3	O-acyl	H	S	8-Fluoroguanine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	5-Fluorocytosine	H	OH
CH_3	O-acyl	H	S	8-Fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-Fluoroadenine	H	OH
CH_3	O-acyl	H	S	2,8-Difluoroadenine	H	OH
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-Aminoadenine	H	OH
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-Aminohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-N-acetylguanine	H	OH
CH_3	O-acyl	H	S	4-N-acetylcytosine	H	OH
CH_3	O-acyl	H	S	6-N-acetyladenine	H	OH
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	H	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-acyl	H	S	Thymine	OH	H
CH_3	O-acyl	H	S	Uracil	OH	H
CH_3	O-acyl	H	S	Guanine	OH	H
CH_3	O-acyl	H	S	Cytosine	OH	H
CH_3	O-acyl	H	S	Adenine	OH	H
CH_3	O-acyl	H	S	Hypoxanthine	OH	H
CH_3	O-acyl	H	S	5-Fluorouracil	OH	H
CH_3	O-acyl	H	S	8-Fluoroguanine	OH	H
CH_3	O-acyl	H	S	5-Fluorocytosine	OH	H
CH_3	O-acyl	H	S	8-Fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-Fluoroadenine	OH	H
CH_3	O-acyl	H	S	2,8-Difluoroadenine	OH	H
CH_3	O-acyl	H	S	2-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	8-Fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-Aminoadenine	OH	H
CH_3	O-acyl	H	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-Aminohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-N-acetylguanine	OH	H
CH_3	O-acyl	H	S	4-N-acetylcytosine	OH	H
CH_3	O-acyl	H	S	6-N-acetyladenine	OH	H
CH_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-N-acetylaminoadenine	OH	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	F	S	Thymine	F	H
CH_3	O-amino acid	F	S	Uracil	F	H
CH_3	O-amino acid	F	S	Guanine	F	H
CH_3	O-amino acid	F	S	Cytosine	F	H
CH_3	O-amino acid	F	S	Adenine	F	H
CH_3	O-amino acid	F	S	Hypoxanthine	F	H
CH_3	O-amino acid	F	S	5-Fluorouracil	F	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-Aminoadenine	F	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	F	S	Thymine	F	O-amino acid
CH_3	O-amino acid	F	S	Uracil	F	O-amino acid
CH_3	O-amino acid	F	S	Guanine	F	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	F	S	Adenine	F	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	F	S	Thymine	F	O-acyl
CH_3	O-amino acid	F	S	Uracil	F	O-acyl
CH_3	O-amino acid	F	S	Guanine	F	O-acyl
CH_3	O-amino acid	F	S	Cytosine	F	O-acyl
CH_3	O-amino acid	F	S	Adenine	F	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	F	S	Thymine	F	OH
CH_3	O-amino acid	F	S	Uracil	F	OH
CH_3	O-amino acid	F	S	Guanine	F	OH
CH_3	O-amino acid	F	S	Cytosine	F	OH
CH_3	O-amino acid	F	S	Adenine	F	OH
CH_3	O-amino acid	F	S	Hypoxanthine	F	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	F	S	Thymine	Br	H
CH_3	O-amino acid	F	S	Uracil	Br	H
CH_3	O-amino acid	F	S	Guanine	Br	H
CH_3	O-amino acid	F	S	Cytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	Adenine	Br	H
CH_3	O-amino acid	F	S	Hypoxanthine	Br	H
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	F	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	F	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	F	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	F	S	Thymine	Br	O-acyl
CH_3	O-amino acid	F	S	Uracil	Br	O-acyl
CH_3	O-amino acid	F	S	Guanine	Br	O-acyl
CH_3	O-amino acid	F	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	F	S	Adenine	Br	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	F	S	Thymine	Br	OH
CH_3	O-amino acid	F	S	Uracil	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	Guanine	Br	OH
CH_3	O-amino acid	F	S	Cytosine	Br	OH
CH_3	O-amino acid	F	S	Adenine	Br	OH
CH_3	O-amino acid	F	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	F	S	Thymine	Cl	H
CH_3	O-amino acid	F	S	Uracil	Cl	H
CH_3	O-amino acid	F	S	Guanine	Cl	H
CH_3	O-amino acid	F	S	Cytosine	Cl	H
CH_3	O-amino acid	F	S	Adenine	Cl	H
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	F	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	F	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	F	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	F	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	F	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	F	S	Thymine	Cl	OH
CH_3	O-amino acid	F	S	Uracil	Cl	OH
CH_3	O-amino acid	F	S	Guanine	Cl	OH
CH_3	O-amino acid	F	S	Cytosine	Cl	OH
CH_3	O-amino acid	F	S	Adenine	Cl	OH
CH_3	O-amino acid	F	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	F	S	Thymine	H	H
CH_3	O-amino acid	F	S	Uracil	H	H
CH_3	O-amino acid	F	S	Guanine	H	H
CH_3	O-amino acid	F	S	Cytosine	H	H
CH_3	O-amino acid	F	S	Adenine	H	H
CH_3	O-amino acid	F	S	Hypoxanthine	H	H
CH_3	O-amino acid	F	S	5-Fluorouracil	H	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-Aminoadenine	H	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	F	S	Thymine	H	O-amino acid
CH_3	O-amino acid	F	S	Uracil	H	O-amino acid
CH_3	O-amino acid	F	S	Guanine	H	O-amino acid
CH_3	O-amino acid	F	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	F	S	Adenine	H	O-amino acid
CH_3	O-amino acid	F	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	F	S	Thymine	H	O-acyl
CH_3	O-amino acid	F	S	Uracil	H	O-acyl
CH_3	O-amino acid	F	S	Guanine	H	O-acyl
CH_3	O-amino acid	F	S	Cytosine	H	O-acyl
CH_3	O-amino acid	F	S	Adenine	H	O-acyl
CH_3	O-amino acid	F	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	F	S	Thymine	H	OH
CH_3	O-amino acid	F	S	Uracil	H	OH
CH_3	O-amino acid	F	S	Guanine	H	OH
CH_3	O-amino acid	F	S	Cytosine	H	OH
CH_3	O-amino acid	F	S	Adenine	H	OH
CH_3	O-amino acid	F	S	Hypoxanthine	H	OH
CH_3	O-amino acid	F	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	F	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	F	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	F	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	F	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	F	S	Thymine	OH	H
CH_3	O-amino acid	F	S	Uracil	OH	H
CH_3	O-amino acid	F	S	Guanine	OH	H
CH_3	O-amino acid	F	S	Cytosine	OH	H
CH_3	O-amino acid	F	S	Adenine	OH	H
CH_3	O-amino acid	F	S	Hypoxanthine	OH	H
CH_3	O-amino acid	F	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	F	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	F	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	F	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	F	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	Thymine	F	H
CH_3	O-amino acid	Br	S	Uracil	F	H
CH_3	O-amino acid	Br	S	Guanine	F	H
CH_3	O-amino acid	Br	S	Cytosine	F	H
CH_3	O-amino acid	Br	S	Adenine	F	H
CH_3	O-amino acid	Br	S	Hypoxanthine	F	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Br	S	Thymine	F	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	F	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	F	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	F	O-amino acid
CH_3	O-amino acid	Br	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	F	O-acyl
CH_3	O-amino acid	Br	S	Uracil	F	O-acyl
CH_3	O-amino acid	Br	S	Guanine	F	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	F	O-acyl
CH_3	O-amino acid	Br	S	Adenine	F	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Br	S	Thymine	F	OH
CH_3	O-amino acid	Br	S	Uracil	F	OH
CH_3	O-amino acid	Br	S	Guanine	F	OH
CH_3	O-amino acid	Br	S	Cytosine	F	OH
CH_3	O-amino acid	Br	S	Adenine	F	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	F	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Br	S	Thymine	Br	H
CH_3	O-amino acid	Br	S	Uracil	Br	H
CH_3	O-amino acid	Br	S	Guanine	Br	H
CH_3	O-amino acid	Br	S	Cytosine	Br	H
CH_3	O-amino acid	Br	S	Adenine	Br	H
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Br	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	Br	O-acyl
CH_3	O-amino acid	Br	S	Uracil	Br	O-acyl
CH_3	O-amino acid	Br	S	Guanine	Br	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	Adenine	Br	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Br	S	Thymine	Br	OH
CH_3	O-amino acid	Br	S	Uracil	Br	OH
CH_3	O-amino acid	Br	S	Guanine	Br	OH
CH_3	O-amino acid	Br	S	Cytosine	Br	OH
CH_3	O-amino acid	Br	S	Adenine	Br	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Br	S	Thymine	Cl	H
CH_3	O-amino acid	Br	S	Uracil	Cl	H
CH_3	O-amino acid	Br	S	Guanine	Cl	H
CH_3	O-amino acid	Br	S	Cytosine	Cl	H
CH_3	O-amino acid	Br	S	Adenine	Cl	H
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Br	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	Br	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Br	S	Thymine	Cl	OH
CH_3	O-amino acid	Br	S	Uracil	Cl	OH
CH_3	O-amino acid	Br	S	Guanine	Cl	OH
CH_3	O-amino acid	Br	S	Cytosine	Cl	OH
CH_3	O-amino acid	Br	S	Adenine	Cl	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Br	S	Thymine	H	H
CH_3	O-amino acid	Br	S	Uracil	H	H
CH_3	O-amino acid	Br	S	Guanine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	Cytosine	H	H
CH_3	O-amino acid	Br	S	Adenine	H	H
CH_3	O-amino acid	Br	S	Hypoxanthine	H	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Br	S	Thymine	H	O-amino acid
CH_3	O-amino acid	Br	S	Uracil	H	O-amino acid
CH_3	O-amino acid	Br	S	Guanine	H	O-amino acid
CH_3	O-amino acid	Br	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	Adenine	H	O-amino acid
CH_3	O-amino acid	Br	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Br	S	Thymine	H	O-acyl
CH_3	O-amino acid	Br	S	Uracil	H	O-acyl
CH_3	O-amino acid	Br	S	Guanine	H	O-acyl
CH_3	O-amino acid	Br	S	Cytosine	H	O-acyl
CH_3	O-amino acid	Br	S	Adenine	H	O-acyl
CH_3	O-amino acid	Br	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Br	S	Thymine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	Uracil	H	OH
CH_3	O-amino acid	Br	S	Guanine	H	OH
CH_3	O-amino acid	Br	S	Cytosine	H	OH
CH_3	O-amino acid	Br	S	Adenine	H	OH
CH_3	O-amino acid	Br	S	Hypoxanthine	H	OH
CH_3	O-amino acid	Br	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	Br	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Br	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Br	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Br	S	Thymine	OH	H
CH_3	O-amino acid	Br	S	Uracil	OH	H
CH_3	O-amino acid	Br	S	Guanine	OH	H
CH_3	O-amino acid	Br	S	Cytosine	OH	H
CH_3	O-amino acid	Br	S	Adenine	OH	H
CH_3	O-amino acid	Br	S	Hypoxanthine	OH	H
CH_3	O-amino acid	Br	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	Br	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	Br	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Br	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-Aminoadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Br	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	Thymine	F	H
CH_3	O-amino acid	Cl	S	Uracil	F	H
CH_3	O-amino acid	Cl	S	Guanine	F	H
CH_3	O-amino acid	Cl	S	Cytosine	F	H
CH_3	O-amino acid	Cl	S	Adenine	F	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	Cl	S	Thymine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	F	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	F	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	F	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	F	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	F	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	F	OH
CH_3	O-amino acid	Cl	S	Uracil	F	OH
CH_3	O-amino acid	Cl	S	Guanine	F	OH
CH_3	O-amino acid	Cl	S	Cytosine	F	OH
CH_3	O-amino acid	Cl	S	Adenine	F	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	Cl	S	Thymine	Br	H
CH_3	O-amino acid	Cl	S	Uracil	Br	H
CH_3	O-amino acid	Cl	S	Guanine	Br	H
CH_3	O-amino acid	Cl	S	Cytosine	Br	H
CH_3	O-amino acid	Cl	S	Adenine	Br	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	Cl	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	Br	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	Br	OH
CH_3	O-amino acid	Cl	S	Uracil	Br	OH
CH_3	O-amino acid	Cl	S	Guanine	Br	OH
CH_3	O-amino acid	Cl	S	Cytosine	Br	OH
CH_3	O-amino acid	Cl	S	Adenine	Br	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	Cl	S	Thymine	Cl	H
CH_3	O-amino acid	Cl	S	Uracil	Cl	H
CH_3	O-amino acid	Cl	S	Guanine	Cl	H
CH_3	O-amino acid	Cl	S	Cytosine	Cl	H
CH_3	O-amino acid	Cl	S	Adenine	Cl	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	Cl	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	Cl	OH
CH_3	O-amino acid	Cl	S	Uracil	Cl	OH
CH_3	O-amino acid	Cl	S	Guanine	Cl	OH
CH_3	O-amino acid	Cl	S	Cytosine	Cl	OH
CH_3	O-amino acid	Cl	S	Adenine	Cl	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	Cl	S	Thymine	H	H
CH_3	O-amino acid	Cl	S	Uracil	H	H
CH_3	O-amino acid	Cl	S	Guanine	H	H
CH_3	O-amino acid	Cl	S	Cytosine	H	H
CH_3	O-amino acid	Cl	S	Adenine	H	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	Cl	S	Thymine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Uracil	H	O-amino acid
CH_3	O-amino acid	Cl	S	Guanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Adenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	Cl	S	Thymine	H	O-acyl
CH_3	O-amino acid	Cl	S	Uracil	H	O-acyl
CH_3	O-amino acid	Cl	S	Guanine	H	O-acyl
CH_3	O-amino acid	Cl	S	Cytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	Adenine	H	O-acyl
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	Cl	S	Thymine	H	OH
CH_3	O-amino acid	Cl	S	Uracil	H	OH
CH_3	O-amino acid	Cl	S	Guanine	H	OH
CH_3	O-amino acid	Cl	S	Cytosine	H	OH
CH_3	O-amino acid	Cl	S	Adenine	H	OH
CH_3	O-amino acid	Cl	S	Hypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	Cl	S	Thymine	OH	H
CH_3	O-amino acid	Cl	S	Uracil	OH	H
CH_3	O-amino acid	Cl	S	Guanine	OH	H
CH_3	O-amino acid	Cl	S	Cytosine	OH	H
CH_3	O-amino acid	Cl	S	Adenine	OH	H
CH_3	O-amino acid	Cl	S	Hypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	Cl	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	Cl	S	5-Fluorocytosine	OH	H
CH_3	O-amino acid	Cl	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	Cl	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	O-amino acid	H	S	Thymine	F	H
CH_3	O-amino acid	H	S	Uracil	F	H
CH_3	O-amino acid	H	S	Guanine	F	H
CH_3	O-amino acid	H	S	Cytosine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	Adenine	F	H
CH_3	O-amino acid	H	S	Hypoxanthine	F	H
CH_3	O-amino acid	H	S	5-Fluorouracil	F	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-Aminoadenine	F	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	H
CH_3	O-amino acid	H	S	Thymine	F	O-amino acid
CH_3	O-amino acid	H	S	Uracil	F	O-amino acid
CH_3	O-amino acid	H	S	Guanine	F	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	F	O-amino acid
CH_3	O-amino acid	H	S	Adenine	F	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	F	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	O-amino acid	H	S	Thymine	F	O-acyl
CH_3	O-amino acid	H	S	Uracil	F	O-acyl
CH_3	O-amino acid	H	S	Guanine	F	O-acyl
CH_3	O-amino acid	H	S	Cytosine	F	O-acyl
CH_3	O-amino acid	H	S	Adenine	F	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	F	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	O-amino acid	H	S	Thymine	F	OH
CH_3	O-amino acid	H	S	Uracil	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	Guanine	F	OH
CH_3	O-amino acid	H	S	Cytosine	F	OH
CH_3	O-amino acid	H	S	Adenine	F	OH
CH_3	O-amino acid	H	S	Hypoxanthine	F	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	F	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	F	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	F	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-Aminoadenine	F	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	F	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	OH
CH_3	O-amino acid	H	S	Thymine	Br	H
CH_3	O-amino acid	H	S	Uracil	Br	H
CH_3	O-amino acid	H	S	Guanine	Br	H
CH_3	O-amino acid	H	S	Cytosine	Br	H
CH_3	O-amino acid	H	S	Adenine	Br	H
CH_3	O-amino acid	H	S	Hypoxanthine	Br	H
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	H
CH_3	O-amino acid	H	S	Thymine	Br	O-amino acid
CH_3	O-amino acid	H	S	Uracil	Br	O-amino acid
CH_3	O-amino acid	H	S	Guanine	Br	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	Adenine	Br	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	Thymine	Br	O-acyl
CH_3	O-amino acid	H	S	Uracil	Br	O-acyl
CH_3	O-amino acid	H	S	Guanine	Br	O-acyl
CH_3	O-amino acid	H	S	Cytosine	Br	O-acyl
CH_3	O-amino acid	H	S	Adenine	Br	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	O-amino acid	H	S	Thymine	Br	OH
CH_3	O-amino acid	H	S	Uracil	Br	OH
CH_3	O-amino acid	H	S	Guanine	Br	OH
CH_3	O-amino acid	H	S	Cytosine	Br	OH
CH_3	O-amino acid	H	S	Adenine	Br	OH
CH_3	O-amino acid	H	S	Hypoxanthine	Br	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	Br	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	Br	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	Br	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-Aminoadenine	Br	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	Br	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	OH
CH_3	O-amino acid	H	S	Thymine	Cl	H
CH_3	O-amino acid	H	S	Uracil	Cl	H
CH_3	O-amino acid	H	S	Guanine	Cl	H
CH_3	O-amino acid	H	S	Cytosine	Cl	H
CH_3	O-amino acid	H	S	Adenine	Cl	H
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	H
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	H
CH_3	O-amino acid	H	S	Thymine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Uracil	Cl	O-amino acid
CH_3	O-amino acid	H	S	Guanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Adenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	O-amino acid	H	S	Thymine	Cl	O-acyl
CH_3	O-amino acid	H	S	Uracil	Cl	O-acyl
CH_3	O-amino acid	H	S	Guanine	Cl	O-acyl
CH_3	O-amino acid	H	S	Cytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	Adenine	Cl	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	O-amino acid	H	S	Thymine	Cl	OH
CH_3	O-amino acid	H	S	Uracil	Cl	OH
CH_3	O-amino acid	H	S	Guanine	Cl	OH
CH_3	O-amino acid	H	S	Cytosine	Cl	OH
CH_3	O-amino acid	H	S	Adenine	Cl	OH
CH_3	O-amino acid	H	S	Hypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	Cl	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	Cl	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	Cl	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-Aminoadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	Cl	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CH_3	O-amino acid	H	S	Thymine	H	H
CH_3	O-amino acid	H	S	Uracil	H	H
CH_3	O-amino acid	H	S	Guanine	H	H
CH_3	O-amino acid	H	S	Cytosine	H	H
CH_3	O-amino acid	H	S	Adenine	H	H
CH_3	O-amino acid	H	S	Hypoxanthine	H	H
CH_3	O-amino acid	H	S	5-Fluorouracil	H	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	H
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-Aminoadenine	H	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	H
CH_3	O-amino acid	H	S	Thymine	H	O-amino acid
CH_3	O-amino acid	H	S	Uracil	H	O-amino acid
CH_3	O-amino acid	H	S	Guanine	H	O-amino acid
CH_3	O-amino acid	H	S	Cytosine	H	O-amino acid
CH_3	O-amino acid	H	S	Adenine	H	O-amino acid
CH_3	O-amino acid	H	S	Hypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorouracil	H	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	O-amino acid	H	S	Thymine	H	O-acyl
CH_3	O-amino acid	H	S	Uracil	H	O-acyl
CH_3	O-amino acid	H	S	Guanine	H	O-acyl
CH_3	O-amino acid	H	S	Cytosine	H	O-acyl
CH_3	O-amino acid	H	S	Adenine	H	O-acyl
CH_3	O-amino acid	H	S	Hypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	5-Fluorouracil	H	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-Aminoadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	O-acyl
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	O-amino acid	H	S	Thymine	H	OH
CH_3	O-amino acid	H	S	Uracil	H	OH
CH_3	O-amino acid	H	S	Guanine	H	OH
CH_3	O-amino acid	H	S	Cytosine	H	OH
CH_3	O-amino acid	H	S	Adenine	H	OH
CH_3	O-amino acid	H	S	Hypoxanthine	H	OH
CH_3	O-amino acid	H	S	5-Fluorouracil	H	OH
CH_3	O-amino acid	H	S	8-Fluoroguanine	H	OH
CH_3	O-amino acid	H	S	5-Fluorocytosine	H	OH
CH_3	O-amino acid	H	S	8-Fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-Fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-Aminoadenine	H	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylguanine	H	OH
CH_3	O-amino acid	H	S	4-N-acetylcytosine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyladenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	OH
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	OH
CH_3	O-amino acid	H	S	Thymine	OH	H
CH_3	O-amino acid	H	S	Uracil	OH	H
CH_3	O-amino acid	H	S	Guanine	OH	H
CH_3	O-amino acid	H	S	Cytosine	OH	H
CH_3	O-amino acid	H	S	Adenine	OH	H
CH_3	O-amino acid	H	S	Hypoxanthine	OH	H
CH_3	O-amino acid	H	S	5-Fluorouracil	OH	H
CH_3	O-amino acid	H	S	8-Fluoroguanine	OH	H
CH_3	O-amino acid	H	S	5-Fluorocytosine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	O-amino acid	H	S	8-Fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-Fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2,8-Difluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	8-Fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-Aminoadenine	OH	H
CH_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-Aminohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylguanine	OH	H
CH_3	O-amino acid	H	S	4-N-acetylcytosine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyladenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CH_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	OH	H
CH_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylaminoadenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CH_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	OH	H
CH_3	OH	F	S	Thymine	F	O-amino acid
CH_3	OH	F	S	Uracil	F	O-amino acid
CH_3	OH	F	S	Guanine	F	O-amino acid
CH_3	OH	F	S	Cytosine	F	O-amino acid
CH_3	OH	F	S	Adenine	F	O-amino acid
CH_3	OH	F	S	Hypoxanthine	F	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	F	S	Thymine	F	O-acyl
CH_3	OH	F	S	Uracil	F	O-acyl
CH_3	OH	F	S	Guanine	F	O-acyl
CH_3	OH	F	S	Cytosine	F	O-acyl
CH_3	OH	F	S	Adenine	F	O-acyl
CH_3	OH	F	S	Hypoxanthine	F	O-acyl
CH_3	OH	F	S	5-Fluorouracil	F	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-Aminoadenine	F	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	F	S	Thymine	Br	O-amino acid
CH_3	OH	F	S	Uracil	Br	O-amino acid
CH_3	OH	F	S	Guanine	Br	O-amino acid
CH_3	OH	F	S	Cytosine	Br	O-amino acid
CH_3	OH	F	S	Adenine	Br	O-amino acid
CH_3	OH	F	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	F	S	Thymine	Br	O-acyl
CH_3	OH	F	S	Uracil	Br	O-acyl
CH_3	OH	F	S	Guanine	Br	O-acyl
CH_3	OH	F	S	Cytosine	Br	O-acyl
CH_3	OH	F	S	Adenine	Br	O-acyl
CH_3	OH	F	S	Hypoxanthine	Br	O-acyl
CH_3	OH	F	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	F	S	Thymine	Cl	O-amino acid
CH_3	OH	F	S	Uracil	Cl	O-amino acid
CH_3	OH	F	S	Guanine	Cl	O-amino acid
CH_3	OH	F	S	Cytosine	Cl	O-amino acid
CH_3	OH	F	S	Adenine	Cl	O-amino acid
CH_3	OH	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	F	S	Thymine	Cl	O-acyl
CH_3	OH	F	S	Uracil	Cl	O-acyl
CH_3	OH	F	S	Guanine	Cl	O-acyl
CH_3	OH	F	S	Cytosine	Cl	O-acyl
CH_3	OH	F	S	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	F	S	Thymine	H	O-amino acid
CH_3	OH	F	S	Uracil	H	O-amino acid
CH_3	OH	F	S	Guanine	H	O-amino acid
CH_3	OH	F	S	Cytosine	H	O-amino acid
CH_3	OH	F	S	Adenine	H	O-amino acid
CH_3	OH	F	S	Hypoxanthine	H	O-amino acid
CH_3	OH	F	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylguanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	F	S	Thymine	H	O-acyl
CH_3	OH	F	S	Uracil	H	O-acyl
CH_3	OH	F	S	Guanine	H	O-acyl
CH_3	OH	F	S	Cytosine	H	O-acyl
CH_3	OH	F	S	Adenine	H	O-acyl
CH_3	OH	F	S	Hypoxanthine	H	O-acyl
CH_3	OH	F	S	5-Fluorouracil	H	O-acyl
CH_3	OH	F	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	F	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	F	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	F	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-Aminoadenine	H	O-acyl
CH_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	F	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Br	S	Thymine	F	O-amino acid
CH_3	OH	Br	S	Uracil	F	O-amino acid
CH_3	OH	Br	S	Guanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	Cytosine	F	O-amino acid
CH_3	OH	Br	S	Adenine	F	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	F	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Br	S	Thymine	F	O-acyl
CH_3	OH	Br	S	Uracil	F	O-acyl
CH_3	OH	Br	S	Guanine	F	O-acyl
CH_3	OH	Br	S	Cytosine	F	O-acyl
CH_3	OH	Br	S	Adenine	F	O-acyl
CH_3	OH	Br	S	Hypoxanthine	F	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	F	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	F	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Br	S	Thymine	Br	O-amino acid
CH_3	OH	Br	S	Uracil	Br	O-amino acid
CH_3	OH	Br	S	Guanine	Br	O-amino acid
CH_3	OH	Br	S	Cytosine	Br	O-amino acid
CH_3	OH	Br	S	Adenine	Br	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Br	S	Thymine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	Uracil	Br	O-acyl
CH_3	OH	Br	S	Guanine	Br	O-acyl
CH_3	OH	Br	S	Cytosine	Br	O-acyl
CH_3	OH	Br	S	Adenine	Br	O-acyl
CH_3	OH	Br	S	Hypoxanthine	Br	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Br	S	Thymine	Cl	O-amino acid
CH_3	OH	Br	S	Uracil	Cl	O-amino acid
CH_3	OH	Br	S	Guanine	Cl	O-amino acid
CH_3	OH	Br	S	Cytosine	Cl	O-amino acid
CH_3	OH	Br	S	Adenine	Cl	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Br	S	Thymine	Cl	O-acyl
CH_3	OH	Br	S	Uracil	Cl	O-acyl
CH_3	OH	Br	S	Guanine	Cl	O-acyl
CH_3	OH	Br	S	Cytosine	Cl	O-acyl
CH_3	OH	Br	S	Adenine	Cl	O-acyl
CH_3	OH	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Br	S	Thymine	H	O-amino acid
CH_3	OH	Br	S	Uracil	H	O-amino acid
CH_3	OH	Br	S	Guanine	H	O-amino acid
CH_3	OH	Br	S	Cytosine	H	O-amino acid
CH_3	OH	Br	S	Adenine	H	O-amino acid
CH_3	OH	Br	S	Hypoxanthine	H	O-amino acid
CH_3	OH	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Br	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Br	S	Thymine	H	O-acyl
CH_3	OH	Br	S	Uracil	H	O-acyl
CH_3	OH	Br	S	Guanine	H	O-acyl
CH_3	OH	Br	S	Cytosine	H	O-acyl
CH_3	OH	Br	S	Adenine	H	O-acyl
CH_3	OH	Br	S	Hypoxanthine	H	O-acyl
CH_3	OH	Br	S	5-Fluorouracil	H	O-acyl
CH_3	OH	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	8-Fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-Aminoadenine	H	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	Thymine	F	O-amino acid
CH_3	OH	Cl	S	Uracil	F	O-amino acid
CH_3	OH	Cl	S	Guanine	F	O-amino acid
CH_3	OH	Cl	S	Cytosine	F	O-amino acid
CH_3	OH	Cl	S	Adenine	F	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	Cl	S	Thymine	F	O-acyl
CH_3	OH	Cl	S	Uracil	F	O-acyl
CH_3	OH	Cl	S	Guanine	F	O-acyl
CH_3	OH	Cl	S	Cytosine	F	O-acyl
CH_3	OH	Cl	S	Adenine	F	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	F	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	F	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	Cl	S	Thymine	Br	O-amino acid
CH_3	OH	Cl	S	Uracil	Br	O-amino acid
CH_3	OH	Cl	S	Guanine	Br	O-amino acid
CH_3	OH	Cl	S	Cytosine	Br	O-amino acid
CH_3	OH	Cl	S	Adenine	Br	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	Cl	S	Thymine	Br	O-acyl
CH_3	OH	Cl	S	Uracil	Br	O-acyl
CH_3	OH	Cl	S	Guanine	Br	O-acyl
CH_3	OH	Cl	S	Cytosine	Br	O-acyl
CH_3	OH	Cl	S	Adenine	Br	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	Cl	S	Thymine	Cl	O-amino acid
CH_3	OH	Cl	S	Uracil	Cl	O-amino acid
CH_3	OH	Cl	S	Guanine	Cl	O-amino acid
CH_3	OH	Cl	S	Cytosine	Cl	O-amino acid
CH_3	OH	Cl	S	Adenine	Cl	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	Cl	S	Thymine	Cl	O-acyl
CH_3	OH	Cl	S	Uracil	Cl	O-acyl
CH_3	OH	Cl	S	Guanine	Cl	O-acyl
CH_3	OH	Cl	S	Cytosine	Cl	O-acyl
CH_3	OH	Cl	S	Adenine	Cl	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	Cl	S	Thymine	H	O-amino acid
CH_3	OH	Cl	S	Uracil	H	O-amino acid
CH_3	OH	Cl	S	Guanine	H	O-amino acid
CH_3	OH	Cl	S	Cytosine	H	O-amino acid
CH_3	OH	Cl	S	Adenine	H	O-amino acid
CH_3	OH	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	Cl	S	Thymine	H	O-acyl
CH_3	OH	Cl	S	Uracil	H	O-acyl
CH_3	OH	Cl	S	Guanine	H	O-acyl
CH_3	OH	Cl	S	Cytosine	H	O-acyl
CH_3	OH	Cl	S	Adenine	H	O-acyl
CH_3	OH	Cl	S	Hypoxanthine	H	O-acyl
CH_3	OH	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	OH	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	OH	H	S	Thymine	F	O-amino acid
CH_3	OH	H	S	Uracil	F	O-amino acid
CH_3	OH	H	S	Guanine	F	O-amino acid
CH_3	OH	H	S	Cytosine	F	O-amino acid
CH_3	OH	H	S	Adenine	F	O-amino acid
CH_3	OH	H	S	Hypoxanthine	F	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	F	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	F	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	OH	H	S	Thymine	F	O-acyl
CH_3	OH	H	S	Uracil	F	O-acyl
CH_3	OH	H	S	Guanine	F	O-acyl
CH_3	OH	H	S	Cytosine	F	O-acyl
CH_3	OH	H	S	Adenine	F	O-acyl
CH_3	OH	H	S	Hypoxanthine	F	O-acyl
CH_3	OH	H	S	5-Fluorouracil	F	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	F	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	F	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	F	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-Aminoadenine	F	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-N-acetylguanine	F	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	F	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	OH	H	S	Thymine	Br	O-amino acid
CH_3	OH	H	S	Uracil	Br	O-amino acid
CH_3	OH	H	S	Guanine	Br	O-amino acid
CH_3	OH	H	S	Cytosine	Br	O-amino acid
CH_3	OH	H	S	Adenine	Br	O-amino acid
CH_3	OH	H	S	Hypoxanthine	Br	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	OH	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	OH	H	S	Thymine	Br	O-acyl
CH_3	OH	H	S	Uracil	Br	O-acyl
CH_3	OH	H	S	Guanine	Br	O-acyl
CH_3	OH	H	S	Cytosine	Br	O-acyl
CH_3	OH	H	S	Adenine	Br	O-acyl
CH_3	OH	H	S	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	5-Fluorouracil	Br	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-Aminoadenine	Br	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	OH	H	S	Thymine	Cl	O-amino acid
CH_3	OH	H	S	Uracil	Cl	O-amino acid
CH_3	OH	H	S	Guanine	Cl	O-amino acid
CH_3	OH	H	S	Cytosine	Cl	O-amino acid
CH_3	OH	H	S	Adenine	Cl	O-amino acid
CH_3	OH	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	OH	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	OH	H	S	Thymine	Cl	O-acyl
CH_3	OH	H	S	Uracil	Cl	O-acyl
CH_3	OH	H	S	Guanine	Cl	O-acyl
CH_3	OH	H	S	Cytosine	Cl	O-acyl
CH_3	OH	H	S	Adenine	Cl	O-acyl
CH_3	OH	H	S	Hypoxanthine	Cl	O-acyl
CH_3	OH	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	OH	H	S	Thymine	H	O-amino acid
CH_3	OH	H	S	Uracil	H	O-amino acid
CH_3	OH	H	S	Guanine	H	O-amino acid
CH_3	OH	H	S	Cytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	Adenine	H	O-amino acid
CH_3	OH	H	S	Hypoxanthine	H	O-amino acid
CH_3	OH	H	S	5-Fluorouracil	H	O-amino acid
CH_3	OH	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	OH	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	OH	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-Aminoadenine	H	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	OH	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	OH	H	S	Thymine	H	O-acyl
CH_3	OH	H	S	Uracil	H	O-acyl
CH_3	OH	H	S	Guanine	H	O-acyl
CH_3	OH	H	S	Cytosine	H	O-acyl
CH_3	OH	H	S	Adenine	H	O-acyl
CH_3	OH	H	S	Hypoxanthine	H	O-acyl
CH_3	OH	H	S	5-Fluorouracil	H	O-acyl
CH_3	OH	H	S	8-Fluoroguanine	H	O-acyl
CH_3	OH	H	S	5-Fluorocytosine	H	O-acyl
CH_3	OH	H	S	8-Fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-Fluoroadenine	H	O-acyl
CH_3	OH	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	OH	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2-Aminoadenine	H	O-acyl
CH_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2-Aminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	OH	H	S	2-N-acetylguanine	H	O-acyl
CH_3	OH	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	OH	H	S	6-N-acetyladenine	H	O-acyl
CH_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	F	S	Thymine	F	O-amino acid
CH_3	H	F	S	Uracil	F	O-amino acid
CH_3	H	F	S	Guanine	F	O-amino acid
CH_3	H	F	S	Cytosine	F	O-amino acid
CH_3	H	F	S	Adenine	F	O-amino acid
CH_3	H	F	S	Hypoxanthine	F	O-amino acid
CH_3	H	F	S	5-Fluorouracil	F	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-Aminoadenine	F	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	F	S	Thymine	F	O-acyl
CH_3	H	F	S	Uracil	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	Guanine	F	O-acyl
CH_3	H	F	S	Cytosine	F	O-acyl
CH_3	H	F	S	Adenine	F	O-acyl
CH_3	H	F	S	Hypoxanthine	F	O-acyl
CH_3	H	F	S	5-Fluorouracil	F	O-acyl
CH_3	H	F	S	8-Fluoroguanine	F	O-acyl
CH_3	H	F	S	5-Fluorocytosine	F	O-acyl
CH_3	H	F	S	8-Fluoroadenine	F	O-acyl
CH_3	H	F	S	2-Fluoroadenine	F	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2-Aminoadenine	F	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	F	S	2-N-acetylguanine	F	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	F	S	6-N-acetyladenine	F	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	F	S	Thymine	Br	O-amino acid
CH_3	H	F	S	Uracil	Br	O-amino acid
CH_3	H	F	S	Guanine	Br	O-amino acid
CH_3	H	F	S	Cytosine	Br	O-amino acid
CH_3	H	F	S	Adenine	Br	O-amino acid
CH_3	H	F	S	Hypoxanthine	Br	O-amino acid
CH_3	H	F	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	F	S	Thymine	Br	O-acyl
CH_3	H	F	S	Uracil	Br	O-acyl
CH_3	H	F	S	Guanine	Br	O-acyl
CH_3	H	F	S	Cytosine	Br	O-acyl
CH_3	H	F	S	Adenine	Br	O-acyl
CH_3	H	F	S	Hypoxanthine	Br	O-acyl
CH_3	H	F	S	5-Fluorouracil	Br	O-acyl
CH_3	H	F	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	F	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	F	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-Aminoadenine	Br	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	F	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	Thymine	Cl	O-amino acid
CH_3	H	F	S	Uracil	Cl	O-amino acid
CH_3	H	F	S	Guanine	Cl	O-amino acid
CH_3	H	F	S	Cytosine	Cl	O-amino acid
CH_3	H	F	S	Adenine	Cl	O-amino acid
CH_3	H	F	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	F	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	F	S	Thymine	Cl	O-acyl
CH_3	H	F	S	Uracil	Cl	O-acyl
CH_3	H	F	S	Guanine	Cl	O-acyl
CH_3	H	F	S	Cytosine	Cl	O-acyl
CH_3	H	F	S	Adenine	Cl	O-acyl
CH_3	H	F	S	Hypoxanthine	Cl	O-acyl
CH_3	H	F	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	F	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	F	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	F	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	F	S	Thymine	H	O-amino acid
CH_3	H	F	S	Uracil	H	O-amino acid
CH_3	H	F	S	Guanine	H	O-amino acid
CH_3	H	F	S	Cytosine	H	O-amino acid
CH_3	H	F	S	Adenine	H	O-amino acid
CH_3	H	F	S	Hypoxanthine	H	O-amino acid
CH_3	H	F	S	5-Fluorouracil	H	O-amino acid
CH_3	H	F	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	F	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	F	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	F	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	F	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	F	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-Aminoadenine	H	O-amino acid
CH_3	H	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	F	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	F	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	F	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	F	S	Thymine	H	O-acyl
CH_3	H	F	S	Uracil	H	O-acyl
CH_3	H	F	S	Guanine	H	O-acyl
CH_3	H	F	S	Cytosine	H	O-acyl
CH_3	H	F	S	Adenine	H	O-acyl
CH_3	H	F	S	Hypoxanthine	H	O-acyl
CH_3	H	F	S	5-Fluorouracil	H	O-acyl
CH_3	H	F	S	8-Fluoroguanine	H	O-acyl
CH_3	H	F	S	5-Fluorocytosine	H	O-acyl
CH_3	H	F	S	8-Fluoroadenine	H	O-acyl
CH_3	H	F	S	2-Fluoroadenine	H	O-acyl
CH_3	H	F	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	F	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2-Aminoadenine	H	O-acyl
CH_3	H	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	F	S	2-N-acetylguanine	H	O-acyl
CH_3	H	F	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	F	S	6-N-acetyladenine	H	O-acyl
CH_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	F	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Br	S	Thymine	F	O-amino acid
CH_3	H	Br	S	Uracil	F	O-amino acid
CH_3	H	Br	S	Guanine	F	O-amino acid
CH_3	H	Br	S	Cytosine	F	O-amino acid
CH_3	H	Br	S	Adenine	F	O-amino acid
CH_3	H	Br	S	Hypoxanthine	F	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	F	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	Br	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	F	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Br	S	Thymine	F	O-acyl
CH_3	H	Br	S	Uracil	F	O-acyl
CH_3	H	Br	S	Guanine	F	O-acyl
CH_3	H	Br	S	Cytosine	F	O-acyl
CH_3	H	Br	S	Adenine	F	O-acyl
CH_3	H	Br	S	Hypoxanthine	F	O-acyl
CH_3	H	Br	S	5-Fluorouracil	F	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	F	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	F	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	F	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	F	O-acyl
CH_3	H	Br	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-Aminoadenine	F	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	F	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	F	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Br	S	Thymine	Br	O-amino acid
CH_3	H	Br	S	Uracil	Br	O-amino acid
CH_3	H	Br	S	Guanine	Br	O-amino acid
CH_3	H	Br	S	Cytosine	Br	O-amino acid
CH_3	H	Br	S	Adenine	Br	O-amino acid
CH_3	H	Br	S	Hypoxanthine	Br	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Br	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Br	S	Thymine	Br	O-acyl
CH_3	H	Br	S	Uracil	Br	O-acyl
CH_3	H	Br	S	Guanine	Br	O-acyl
CH_3	H	Br	S	Cytosine	Br	O-acyl
CH_3	H	Br	S	Adenine	Br	O-acyl
CH_3	H	Br	S	Hypoxanthine	Br	O-acyl
CH_3	H	Br	S	5-Fluorouracil	Br	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-Aminoadenine	Br	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Br	S	Thymine	Cl	O-amino acid
CH_3	H	Br	S	Uracil	Cl	O-amino acid
CH_3	H	Br	S	Guanine	Cl	O-amino acid
CH_3	H	Br	S	Cytosine	Cl	O-amino acid
CH_3	H	Br	S	Adenine	Cl	O-amino acid
CH_3	H	Br	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Br	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Br	S	Thymine	Cl	O-acyl
CH_3	H	Br	S	Uracil	Cl	O-acyl
CH_3	H	Br	S	Guanine	Cl	O-acyl
CH_3	H	Br	S	Cytosine	Cl	O-acyl
CH_3	H	Br	S	Adenine	Cl	O-acyl
CH_3	H	Br	S	Hypoxanthine	Cl	O-acyl
CH_3	H	Br	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Br	S	Thymine	H	O-amino acid
CH_3	H	Br	S	Uracil	H	O-amino acid
CH_3	H	Br	S	Guanine	H	O-amino acid
CH_3	H	Br	S	Cytosine	H	O-amino acid
CH_3	H	Br	S	Adenine	H	O-amino acid
CH_3	H	Br	S	Hypoxanthine	H	O-amino acid
CH_3	H	Br	S	5-Fluorouracil	H	O-amino acid
CH_3	H	Br	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	Br	S	5-Fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-Aminoadenine	H	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	Br	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Br	S	Thymine	H	O-acyl
CH_3	H	Br	S	Uracil	H	O-acyl
CH_3	H	Br	S	Guanine	H	O-acyl
CH_3	H	Br	S	Cytosine	H	O-acyl
CH_3	H	Br	S	Adenine	H	O-acyl
CH_3	H	Br	S	Hypoxanthine	H	O-acyl
CH_3	H	Br	S	5-Fluorouracil	H	O-acyl
CH_3	H	Br	S	8-Fluoroguanine	H	O-acyl
CH_3	H	Br	S	5-Fluorocytosine	H	O-acyl
CH_3	H	Br	S	8-Fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-Fluoroadenine	H	O-acyl
CH_3	H	Br	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Br	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-Aminoadenine	H	O-acyl
CH_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-N-acetylguanine	H	O-acyl
CH_3	H	Br	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	Br	S	6-N-acetyladenine	H	O-acyl
CH_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	Cl	S	Thymine	F	O-amino acid
CH_3	H	Cl	S	Uracil	F	O-amino acid
CH_3	H	Cl	S	Guanine	F	O-amino acid
CH_3	H	Cl	S	Cytosine	F	O-amino acid
CH_3	H	Cl	S	Adenine	F	O-amino acid
CH_3	H	Cl	S	Hypoxanthine	F	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	F	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	F	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	Cl	S	Thymine	F	O-acyl
CH_3	H	Cl	S	Uracil	F	O-acyl
CH_3	H	Cl	S	Guanine	F	O-acyl
CH_3	H	Cl	S	Cytosine	F	O-acyl
CH_3	H	Cl	S	Adenine	F	O-acyl
CH_3	H	Cl	S	Hypoxanthine	F	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	8-Fluoroguanine	F	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	F	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	F	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	F	O-acyl
CH_3	H	Cl	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	Cl	S	Thymine	Br	O-amino acid
CH_3	H	Cl	S	Uracil	Br	O-amino acid
CH_3	H	Cl	S	Guanine	Br	O-amino acid
CH_3	H	Cl	S	Cytosine	Br	O-amino acid
CH_3	H	Cl	S	Adenine	Br	O-amino acid
CH_3	H	Cl	S	Hypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	Cl	S	Thymine	Br	O-acyl
CH_3	H	Cl	S	Uracil	Br	O-acyl
CH_3	H	Cl	S	Guanine	Br	O-acyl
CH_3	H	Cl	S	Cytosine	Br	O-acyl
CH_3	H	Cl	S	Adenine	Br	O-acyl
CH_3	H	Cl	S	Hypoxanthine	Br	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	Br	O-acyl
CH_3	H	Cl	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	Br	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	Cl	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	Cl	S	Thymine	Cl	O-amino acid
CH_3	H	Cl	S	Uracil	Cl	O-amino acid
CH_3	H	Cl	S	Guanine	Cl	O-amino acid
CH_3	H	Cl	S	Cytosine	Cl	O-amino acid
CH_3	H	Cl	S	Adenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	Cl	S	Thymine	Cl	O-acyl
CH_3	H	Cl	S	Uracil	Cl	O-acyl
CH_3	H	Cl	S	Guanine	Cl	O-acyl
CH_3	H	Cl	S	Cytosine	Cl	O-acyl
CH_3	H	Cl	S	Adenine	Cl	O-acyl
CH_3	H	Cl	S	Hypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	Cl	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	Cl	S	Thymine	H	O-amino acid
CH_3	H	Cl	S	Uracil	H	O-amino acid
CH_3	H	Cl	S	Guanine	H	O-amino acid
CH_3	H	Cl	S	Cytosine	H	O-amino acid
CH_3	H	Cl	S	Adenine	H	O-amino acid
CH_3	H	Cl	S	Hypoxanthine	H	O-amino acid
CH_3	H	Cl	S	5-Fluorouracil	H	O-amino acid
CH_3	H	Cl	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	Cl	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	Cl	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-Aminoadenine	H	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	Cl	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	Cl	S	Thymine	H	O-acyl
CH_3	H	Cl	S	Uracil	H	O-acyl
CH_3	H	Cl	S	Guanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	Cl	S	Cytosine	H	O-acyl
CH_3	H	Cl	S	Adenine	H	O-acyl
CH_3	H	Cl	S	Hypoxanthine	H	O-acyl
CH_3	H	Cl	S	5-Fluorouracil	H	O-acyl
CH_3	H	Cl	S	8-Fluoroguanine	H	O-acyl
CH_3	H	Cl	S	5-Fluorocytosine	H	O-acyl
CH_3	H	Cl	S	8-Fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-Fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-Aminoadenine	H	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylguanine	H	O-acyl
CH_3	H	Cl	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyladenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	H	S	Thymine	F	O-amino acid
CH_3	H	H	S	Uracil	F	O-amino acid
CH_3	H	H	S	Guanine	F	O-amino acid
CH_3	H	H	S	Cytosine	F	O-amino acid
CH_3	H	H	S	Adenine	F	O-amino acid
CH_3	H	H	S	Hypoxanthine	F	O-amino acid
CH_3	H	H	S	5-Fluorouracil	F	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	2-Aminoadenine	F	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	H	S	Thymine	F	O-acyl
CH_3	H	H	S	Uracil	F	O-acyl
CH_3	H	H	S	Guanine	F	O-acyl
CH_3	H	H	S	Cytosine	F	O-acyl
CH_3	H	H	S	Adenine	F	O-acyl
CH_3	H	H	S	Hypoxanthine	F	O-acyl
CH_3	H	H	S	5-Fluorouracil	F	O-acyl
CH_3	H	H	S	8-Fluoroguanine	F	O-acyl
CH_3	H	H	S	5-Fluorocytosine	F	O-acyl
CH_3	H	H	S	8-Fluoroadenine	F	O-acyl
CH_3	H	H	S	2-Fluoroadenine	F	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	F	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2-Aminoadenine	F	O-acyl
CH_3	H	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	H	S	2-N-acetylguanine	F	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	H	S	6-N-acetyladenine	F	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	H	S	Thymine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	Uracil	Br	O-amino acid
CH_3	H	H	S	Guanine	Br	O-amino acid
CH_3	H	H	S	Cytosine	Br	O-amino acid
CH_3	H	H	S	Adenine	Br	O-amino acid
CH_3	H	H	S	Hypoxanthine	Br	O-amino acid
CH_3	H	H	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	H	S	Thymine	Br	O-acyl
CH_3	H	H	S	Uracil	Br	O-acyl
CH_3	H	H	S	Guanine	Br	O-acyl
CH_3	H	H	S	Cytosine	Br	O-acyl
CH_3	H	H	S	Adenine	Br	O-acyl
CH_3	H	H	S	Hypoxanthine	Br	O-acyl
CH_3	H	H	S	5-Fluorouracil	Br	O-acyl
CH_3	H	H	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	H	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	H	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-Aminoadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	H	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	H	S	Thymine	Cl	O-amino acid
CH_3	H	H	S	Uracil	Cl	O-amino acid
CH_3	H	H	S	Guanine	Cl	O-amino acid
CH_3	H	H	S	Cytosine	Cl	O-amino acid
CH_3	H	H	S	Adenine	Cl	O-amino acid
CH_3	H	H	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	H	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	H	S	Thymine	Cl	O-acyl
CH_3	H	H	S	Uracil	Cl	O-acyl
CH_3	H	H	S	Guanine	Cl	O-acyl
CH_3	H	H	S	Cytosine	Cl	O-acyl
CH_3	H	H	S	Adenine	Cl	O-acyl
CH_3	H	H	S	Hypoxanthine	Cl	O-acyl
CH_3	H	H	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	H	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	H	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	H	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	H	S	Thymine	H	O-amino acid
CH_3	H	H	S	Uracil	H	O-amino acid
CH_3	H	H	S	Guanine	H	O-amino acid
CH_3	H	H	S	Cytosine	H	O-amino acid
CH_3	H	H	S	Adenine	H	O-amino acid
CH_3	H	H	S	Hypoxanthine	H	O-amino acid
CH_3	H	H	S	5-Fluorouracil	H	O-amino acid
CH_3	H	H	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	H	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	H	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	H	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	H	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	8-Fluorohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-Aminoadenine	H	O-amino acid
CH_3	H	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	H	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	H	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	H	S	Thymine	H	O-acyl
CH_3	H	H	S	Uracil	H	O-acyl
CH_3	H	H	S	Guanine	H	O-acyl
CH_3	H	H	S	Cytosine	H	O-acyl
CH_3	H	H	S	Adenine	H	O-acyl
CH_3	H	H	S	Hypoxanthine	H	O-acyl
CH_3	H	H	S	5-Fluorouracil	H	O-acyl
CH_3	H	H	S	8-Fluoroguanine	H	O-acyl
CH_3	H	H	S	5-Fluorocytosine	H	O-acyl
CH_3	H	H	S	8-Fluoroadenine	H	O-acyl
CH_3	H	H	S	2-Fluoroadenine	H	O-acyl
CH_3	H	H	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	H	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-Aminoadenine	H	O-acyl
CH_3	H	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	H	S	2-N-acetylguanine	H	O-acyl
CH_3	H	H	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	H	S	6-N-acetyladenine	H	O-acyl
CH_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-N-acetylaminoadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CH_3	H	OH	S	Thymine	F	O-amino acid
CH_3	H	OH	S	Uracil	F	O-amino acid
CH_3	H	OH	S	Guanine	F	O-amino acid
CH_3	H	OH	S	Cytosine	F	O-amino acid
CH_3	H	OH	S	Adenine	F	O-amino acid
CH_3	H	OH	S	Hypoxanthine	F	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	F	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	F	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	F	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	F	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	F	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CH_3	H	OH	S	Thymine	F	O-acyl
CH_3	H	OH	S	Uracil	F	O-acyl
CH_3	H	OH	S	Guanine	F	O-acyl
CH_3	H	OH	S	Cytosine	F	O-acyl
CH_3	H	OH	S	Adenine	F	O-acyl
CH_3	H	OH	S	Hypoxanthine	F	O-acyl
CH_3	H	OH	S	5-Fluorouracil	F	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	F	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	F	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	F	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	2-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-Aminoadenine	F	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	F	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	F	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	F	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	F	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CH_3	H	OH	S	Thymine	Br	O-amino acid
CH_3	H	OH	S	Uracil	Br	O-amino acid
CH_3	H	OH	S	Guanine	Br	O-amino acid
CH_3	H	OH	S	Cytosine	Br	O-amino acid
CH_3	H	OH	S	Adenine	Br	O-amino acid
CH_3	H	OH	S	Hypoxanthine	Br	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	Br	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	Br	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	Br	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	Br	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	Br	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CH_3	H	OH	S	Thymine	Br	O-acyl
CH_3	H	OH	S	Uracil	Br	O-acyl
CH_3	H	OH	S	Guanine	Br	O-acyl
CH_3	H	OH	S	Cytosine	Br	O-acyl
CH_3	H	OH	S	Adenine	Br	O-acyl
CH_3	H	OH	S	Hypoxanthine	Br	O-acyl
CH_3	H	OH	S	5-Fluorouracil	Br	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	Br	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	Br	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-Aminoadenine	Br	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	Br	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CH_3	H	OH	S	Thymine	Cl	O-amino acid
CH_3	H	OH	S	Uracil	Cl	O-amino acid
CH_3	H	OH	S	Guanine	Cl	O-amino acid
CH_3	H	OH	S	Cytosine	Cl	O-amino acid
CH_3	H	OH	S	Adenine	Cl	O-amino acid
CH_3	H	OH	S	Hypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	Cl	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	Cl	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	Cl	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	2-Fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	Cl	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CH_3	H	OH	S	Thymine	Cl	O-acyl
CH_3	H	OH	S	Uracil	Cl	O-acyl
CH_3	H	OH	S	Guanine	Cl	O-acyl
CH_3	H	OH	S	Cytosine	Cl	O-acyl
CH_3	H	OH	S	Adenine	Cl	O-acyl
CH_3	H	OH	S	Hypoxanthine	Cl	O-acyl
CH_3	H	OH	S	5-Fluorouracil	Cl	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	Cl	O-acyl
CH_3	H	OH	S	5-Fluorocytosine	Cl	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-Aminoadenine	Cl	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	Cl	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CH_3	H	OH	S	Thymine	H	O-amino acid
CH_3	H	OH	S	Uracil	H	O-amino acid
CH_3	H	OH	S	Guanine	H	O-amino acid
CH_3	H	OH	S	Cytosine	H	O-amino acid
CH_3	H	OH	S	Adenine	H	O-amino acid
CH_3	H	OH	S	Hypoxanthine	H	O-amino acid
CH_3	H	OH	S	5-Fluorouracil	H	O-amino acid
CH_3	H	OH	S	8-Fluoroguanine	H	O-amino acid
CH_3	H	OH	S	5-Fluorocytosine	H	O-amino acid
CH_3	H	OH	S	8-Fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2,8-Difluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-Aminoadenine	H	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-Aminohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylguanine	H	O-amino acid
CH_3	H	OH	S	4-N-acetylcytosine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyladenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CH_3	H	OH	S	Thymine	H	O-acyl
CH_3	H	OH	S	Uracil	H	O-acyl
CH_3	H	OH	S	Guanine	H	O-acyl
CH_3	H	OH	S	Cytosine	H	O-acyl
CH_3	H	OH	S	Adenine	H	O-acyl
CH_3	H	OH	S	Hypoxanthine	H	O-acyl
CH_3	H	OH	S	5-Fluorouracil	H	O-acyl
CH_3	H	OH	S	8-Fluoroguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CH_3	H	OH	S	5-Fluorocytosine	H	O-acyl
CH_3	H	OH	S	8-Fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Fluoroadenine	H	O-acyl
CH_3	H	OH	S	2,8-Difluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	8-Fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-Aminoadenine	H	O-acyl
CH_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-Aminohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-N-acetylguanine	H	O-acyl
CH_3	H	OH	S	4-N-acetylcytosine	H	O-acyl
CH_3	H	OH	S	6-N-acetyladenine	H	O-acyl
CH_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CH_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CH_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylaminoadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CH_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CH_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	Thymine	F	H
CF_3	O-acyl	F	S	Uracil	F	H
CF_3	O-acyl	F	S	Guanine	F	H
CF_3	O-acyl	F	S	Cytosine	F	H
CF_3	O-acyl	F	S	Adenine	F	H
CF_3	O-acyl	F	S	Hypoxanthine	F	H
CF_3	O-acyl	F	S	5-Fluorouracil	F	H
CF_3	O-acyl	F	S	8-Fluoroguanine	F	H
CF_3	O-acyl	F	S	5-Fluorocytosine	F	H
CF_3	O-acyl	F	S	8-Fluoroadenine	F	H
CF_3	O-acyl	F	S	2-Fluoroadenine	F	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-Aminoadenine	F	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	F	S	2-N-acetylguanine	F	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	F	S	6-N-acetyladenine	F	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	F	S	Thymine	F	O-amino acid
CF_3	O-acyl	F	S	Uracil	F	O-amino acid
CF_3	O-acyl	F	S	Guanine	F	O-amino acid
CF_3	O-acyl	F	S	Cytosine	F	O-amino acid
CF_3	O-acyl	F	S	Adenine	F	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	Thymine	F	O-acyl
CF_3	O-acyl	F	S	Uracil	F	O-acyl
CF_3	O-acyl	F	S	Guanine	F	O-acyl
CF_3	O-acyl	F	S	Cytosine	F	O-acyl
CF_3	O-acyl	F	S	Adenine	F	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	F	S	Thymine	F	OH
CF_3	O-acyl	F	S	Uracil	F	OH
CF_3	O-acyl	F	S	Guanine	F	OH
CF_3	O-acyl	F	S	Cytosine	F	OH
CF_3	O-acyl	F	S	Adenine	F	OH
CF_3	O-acyl	F	S	Hypoxanthine	F	OH
CF_3	O-acyl	F	S	5-Fluorouracil	F	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-Aminoadenine	F	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	F	S	Thymine	Br	H
CF_3	O-acyl	F	S	Uracil	Br	H
CF_3	O-acyl	F	S	Guanine	Br	H
CF_3	O-acyl	F	S	Cytosine	Br	H
CF_3	O-acyl	F	S	Adenine	Br	H
CF_3	O-acyl	F	S	Hypoxanthine	Br	H
CF_3	O-acyl	F	S	5-Fluorouracil	Br	H
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-Aminoadenine	Br	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	F	S	Thymine	Br	O-amino acid
CF_3	O-acyl	F	S	Uracil	Br	O-amino acid
CF_3	O-acyl	F	S	Guanine	Br	O-amino acid
CF_3	O-acyl	F	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	F	S	Adenine	Br	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	F	S	Thymine	Br	O-acyl
CF_3	O-acyl	F	S	Uracil	Br	O-acyl
CF_3	O-acyl	F	S	Guanine	Br	O-acyl
CF_3	O-acyl	F	S	Cytosine	Br	O-acyl
CF_3	O-acyl	F	S	Adenine	Br	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	F	S	Thymine	Br	OH
CF_3	O-acyl	F	S	Uracil	Br	OH
CF_3	O-acyl	F	S	Guanine	Br	OH
CF_3	O-acyl	F	S	Cytosine	Br	OH
CF_3	O-acyl	F	S	Adenine	Br	OH
CF_3	O-acyl	F	S	Hypoxanthine	Br	OH
CF_3	O-acyl	F	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	F	S	Thymine	Cl	O-acyl
CF_3	O-acyl	F	S	Uracil	Cl	O-acyl
CF_3	O-acyl	F	S	Guanine	Cl	O-acyl
CF_3	O-acyl	F	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	F	S	Adenine	Cl	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	F	S	Thymine	Cl	OH
CF_3	O-acyl	F	S	Uracil	Cl	OH
CF_3	O-acyl	F	S	Guanine	Cl	OH
CF_3	O-acyl	F	S	Cytosine	Cl	OH
CF_3	O-acyl	F	S	Adenine	Cl	OH
CF_3	O-acyl	F	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	F	S	Thymine	Cl	H
CF_3	O-acyl	F	S	Uracil	Cl	H
CF_3	O-acyl	F	S	Guanine	Cl	H
CF_3	O-acyl	F	S	Cytosine	Cl	H
CF_3	O-acyl	F	S	Adenine	Cl	H
CF_3	O-acyl	F	S	Hypoxanthine	Cl	H
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	F	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	F	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	F	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	F	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	F	S	Thymine	H	H
CF_3	O-acyl	F	S	Uracil	H	H
CF_3	O-acyl	F	S	Guanine	H	H
CF_3	O-acyl	F	S	Cytosine	H	H
CF_3	O-acyl	F	S	Adenine	H	H
CF_3	O-acyl	F	S	Hypoxanthine	H	H
CF_3	O-acyl	F	S	5-Fluorouracil	H	H
CF_3	O-acyl	F	S	8-Fluoroguanine	H	H
CF_3	O-acyl	F	S	5-Fluorocytosine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluoroadenine	H	H
CF_3	O-acyl	F	S	2-Fluoroadenine	H	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-Aminoadenine	H	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	F	S	2-N-acetylguanine	H	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	F	S	6-N-acetyladenine	H	H
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	F	S	Thymine	H	O-amino acid
CF_3	O-acyl	F	S	Uracil	H	O-amino acid
CF_3	O-acyl	F	S	Guanine	H	O-amino acid
CF_3	O-acyl	F	S	Cytosine	H	O-amino acid
CF_3	O-acyl	F	S	Adenine	H	O-amino acid
CF_3	O-acyl	F	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	F	S	Thymine	H	O-acyl
CF_3	O-acyl	F	S	Uracil	H	O-acyl
CF_3	O-acyl	F	S	Guanine	H	O-acyl
CF_3	O-acyl	F	S	Cytosine	H	O-acyl
CF_3	O-acyl	F	S	Adenine	H	O-acyl
CF_3	O-acyl	F	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	F	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	F	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	F	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	F	S	Thymine	H	OH
CF_3	O-acyl	F	S	Uracil	H	OH
CF_3	O-acyl	F	S	Guanine	H	OH
CF_3	O-acyl	F	S	Cytosine	H	OH
CF_3	O-acyl	F	S	Adenine	H	OH
CF_3	O-acyl	F	S	Hypoxanthine	H	OH
CF_3	O-acyl	F	S	5-Fluorouracil	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	F	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	F	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	F	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-Aminoadenine	H	OH
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	F	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	F	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	F	S	Thymine	OH	H
CF_3	O-acyl	F	S	Uracil	OH	H
CF_3	O-acyl	F	S	Guanine	OH	H
CF_3	O-acyl	F	S	Cytosine	OH	H
CF_3	O-acyl	F	S	Adenine	OH	H
CF_3	O-acyl	F	S	Hypoxanthine	OH	H
CF_3	O-acyl	F	S	5-Fluorouracil	OH	H
CF_3	O-acyl	F	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	F	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	F	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	F	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-Aminoadenine	OH	H
CF_3	O-acyl	F	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	F	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	F	S	6-N-acetyladenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	F	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Br	S	Thymine	F	H
CF_3	O-acyl	Br	S	Uracil	F	H
CF_3	O-acyl	Br	S	Guanine	F	H
CF_3	O-acyl	Br	S	Cytosine	F	H
CF_3	O-acyl	Br	S	Adenine	F	H
CF_3	O-acyl	Br	S	Hypoxanthine	F	H
CF_3	O-acyl	Br	S	5-Fluorouracil	F	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-Aminoadenine	F	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Br	S	Thymine	F	O-amino acid
CF_3	O-acyl	Br	S	Uracil	F	O-amino acid
CF_3	O-acyl	Br	S	Guanine	F	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	F	O-amino acid
CF_3	O-acyl	Br	S	Adenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Br	S	Thymine	F	O-acyl
CF_3	O-acyl	Br	S	Uracil	F	O-acyl
CF_3	O-acyl	Br	S	Guanine	F	O-acyl
CF_3	O-acyl	Br	S	Cytosine	F	O-acyl
CF_3	O-acyl	Br	S	Adenine	F	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Br	S	Thymine	F	OH
CF_3	O-acyl	Br	S	Uracil	F	OH
CF_3	O-acyl	Br	S	Guanine	F	OH
CF_3	O-acyl	Br	S	Cytosine	F	OH
CF_3	O-acyl	Br	S	Adenine	F	OH
CF_3	O-acyl	Br	S	Hypoxanthine	F	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	F	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	F	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Br	S	Thymine	Br	H
CF_3	O-acyl	Br	S	Uracil	Br	H
CF_3	O-acyl	Br	S	Guanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Cytosine	Br	H
CF_3	O-acyl	Br	S	Adenine	Br	H
CF_3	O-acyl	Br	S	Hypoxanthine	Br	H
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Br	S	Thymine	Br	O-amino acid
CF_3	O-acyl	Br	S	Uracil	Br	O-amino acid
CF_3	O-acyl	Br	S	Guanine	Br	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	Adenine	Br	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Br	S	Thymine	Br	O-acyl
CF_3	O-acyl	Br	S	Uracil	Br	O-acyl
CF_3	O-acyl	Br	S	Guanine	Br	O-acyl
CF_3	O-acyl	Br	S	Cytosine	Br	O-acyl
CF_3	O-acyl	Br	S	Adenine	Br	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Br	S	Thymine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	Uracil	Br	OH
CF_3	O-acyl	Br	S	Guanine	Br	OH
CF_3	O-acyl	Br	S	Cytosine	Br	OH
CF_3	O-acyl	Br	S	Adenine	Br	OH
CF_3	O-acyl	Br	S	Hypoxanthine	Br	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Br	S	Thymine	Cl	H
CF_3	O-acyl	Br	S	Uracil	Cl	H
CF_3	O-acyl	Br	S	Guanine	Cl	H
CF_3	O-acyl	Br	S	Cytosine	Cl	H
CF_3	O-acyl	Br	S	Adenine	Cl	H
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	H
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Br	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	Br	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Br	S	Thymine	Cl	O-acyl
CF_3	O-acyl	Br	S	Uracil	Cl	O-acyl
CF_3	O-acyl	Br	S	Guanine	Cl	O-acyl
CF_3	O-acyl	Br	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	Adenine	Cl	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Br	S	Thymine	Cl	OH
CF_3	O-acyl	Br	S	Uracil	Cl	OH
CF_3	O-acyl	Br	S	Guanine	Cl	OH
CF_3	O-acyl	Br	S	Cytosine	Cl	OH
CF_3	O-acyl	Br	S	Adenine	Cl	OH
CF_3	O-acyl	Br	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Br	S	Thymine	H	H
CF_3	O-acyl	Br	S	Uracil	H	H
CF_3	O-acyl	Br	S	Guanine	H	H
CF_3	O-acyl	Br	S	Cytosine	H	H
CF_3	O-acyl	Br	S	Adenine	H	H
CF_3	O-acyl	Br	S	Hypoxanthine	H	H
CF_3	O-acyl	Br	S	5-Fluorouracil	H	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-Aminoadenine	H	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Br	S	Thymine	H	O-amino acid
CF_3	O-acyl	Br	S	Uracil	H	O-amino acid
CF_3	O-acyl	Br	S	Guanine	H	O-amino acid
CF_3	O-acyl	Br	S	Cytosine	H	O-amino acid
CF_3	O-acyl	Br	S	Adenine	H	O-amino acid
CF_3	O-acyl	Br	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Br	S	Thymine	H	O-acyl
CF_3	O-acyl	Br	S	Uracil	H	O-acyl
CF_3	O-acyl	Br	S	Guanine	H	O-acyl
CF_3	O-acyl	Br	S	Cytosine	H	O-acyl
CF_3	O-acyl	Br	S	Adenine	H	O-acyl
CF_3	O-acyl	Br	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	Br	S	Thymine	H	OH
CF_3	O-acyl	Br	S	Uracil	H	OH
CF_3	O-acyl	Br	S	Guanine	H	OH
CF_3	O-acyl	Br	S	Cytosine	H	OH
CF_3	O-acyl	Br	S	Adenine	H	OH
CF_3	O-acyl	Br	S	Hypoxanthine	H	OH
CF_3	O-acyl	Br	S	5-Fluorouracil	H	OH
CF_3	O-acyl	Br	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	Br	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	Br	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-Aminoadenine	H	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	Br	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Br	S	Thymine	OH	H
CF_3	O-acyl	Br	S	Uracil	OH	H
CF_3	O-acyl	Br	S	Guanine	OH	H
CF_3	O-acyl	Br	S	Cytosine	OH	H
CF_3	O-acyl	Br	S	Adenine	OH	H
CF_3	O-acyl	Br	S	Hypoxanthine	OH	H
CF_3	O-acyl	Br	S	5-Fluorouracil	OH	H
CF_3	O-acyl	Br	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	Br	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	Br	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-Aminoadenine	OH	H
CF_3	O-acyl	Br	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	Br	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Br	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	Thymine	F	H
CF_3	O-acyl	Cl	S	Uracil	F	H
CF_3	O-acyl	Cl	S	Guanine	F	H
CF_3	O-acyl	Cl	S	Cytosine	F	H
CF_3	O-acyl	Cl	S	Adenine	F	H
CF_3	O-acyl	Cl	S	Hypoxanthine	F	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	Cl	S	Thymine	F	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	F	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	F	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	F	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	F	O-acyl
CF_3	O-acyl	Cl	S	Uracil	F	O-acyl
CF_3	O-acyl	Cl	S	Guanine	F	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	F	O-acyl
CF_3	O-acyl	Cl	S	Adenine	F	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	Cl	S	Thymine	F	OH
CF_3	O-acyl	Cl	S	Uracil	F	OH
CF_3	O-acyl	Cl	S	Guanine	F	OH
CF_3	O-acyl	Cl	S	Cytosine	F	OH
CF_3	O-acyl	Cl	S	Adenine	F	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	F	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	F	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	F	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	Cl	S	Thymine	Br	H
CF_3	O-acyl	Cl	S	Uracil	Br	H
CF_3	O-acyl	Cl	S	Guanine	Br	H
CF_3	O-acyl	Cl	S	Cytosine	Br	H
CF_3	O-acyl	Cl	S	Adenine	Br	H
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	Cl	S	Thymine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	Br	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	Br	O-acyl
CF_3	O-acyl	Cl	S	Uracil	Br	O-acyl
CF_3	O-acyl	Cl	S	Guanine	Br	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	Adenine	Br	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	Cl	S	Thymine	Br	OH
CF_3	O-acyl	Cl	S	Uracil	Br	OH
CF_3	O-acyl	Cl	S	Guanine	Br	OH
CF_3	O-acyl	Cl	S	Cytosine	Br	OH
CF_3	O-acyl	Cl	S	Adenine	Br	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	Cl	S	Thymine	Cl	H
CF_3	O-acyl	Cl	S	Uracil	Cl	H
CF_3	O-acyl	Cl	S	Guanine	Cl	H
CF_3	O-acyl	Cl	S	Cytosine	Cl	H
CF_3	O-acyl	Cl	S	Adenine	Cl	H
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	Cl	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Uracil	Cl	O-acyl
CF_3	O-acyl	Cl	S	Guanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Adenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	Cl	S	Thymine	Cl	OH
CF_3	O-acyl	Cl	S	Uracil	Cl	OH
CF_3	O-acyl	Cl	S	Guanine	Cl	OH
CF_3	O-acyl	Cl	S	Cytosine	Cl	OH
CF_3	O-acyl	Cl	S	Adenine	Cl	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	Cl	S	Thymine	H	H
CF_3	O-acyl	Cl	S	Uracil	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Guanine	H	H
CF_3	O-acyl	Cl	S	Cytosine	H	H
CF_3	O-acyl	Cl	S	Adenine	H	H
CF_3	O-acyl	Cl	S	Hypoxanthine	H	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	Cl	S	Thymine	H	O-amino acid
CF_3	O-acyl	Cl	S	Uracil	H	O-amino acid
CF_3	O-acyl	Cl	S	Guanine	H	O-amino acid
CF_3	O-acyl	Cl	S	Cytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	Adenine	H	O-amino acid
CF_3	O-acyl	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	Cl	S	Thymine	H	O-acyl
CF_3	O-acyl	Cl	S	Uracil	H	O-acyl
CF_3	O-acyl	Cl	S	Guanine	H	O-acyl
CF_3	O-acyl	Cl	S	Cytosine	H	O-acyl
CF_3	O-acyl	Cl	S	Adenine	H	O-acyl
CF_3	O-acyl	Cl	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	Thymine	H	OH
CF_3	O-acyl	Cl	S	Uracil	H	OH
CF_3	O-acyl	Cl	S	Guanine	H	OH
CF_3	O-acyl	Cl	S	Cytosine	H	OH
CF_3	O-acyl	Cl	S	Adenine	H	OH
CF_3	O-acyl	Cl	S	Hypoxanthine	H	OH
CF_3	O-acyl	Cl	S	5-Fluorouracil	H	OH
CF_3	O-acyl	Cl	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	Cl	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	Cl	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-Aminoadenine	H	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylguanine	H	OH
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	Cl	S	Thymine	OH	H
CF_3	O-acyl	Cl	S	Uracil	OH	H
CF_3	O-acyl	Cl	S	Guanine	OH	H
CF_3	O-acyl	Cl	S	Cytosine	OH	H
CF_3	O-acyl	Cl	S	Adenine	OH	H
CF_3	O-acyl	Cl	S	Hypoxanthine	OH	H
CF_3	O-acyl	Cl	S	5-Fluorouracil	OH	H
CF_3	O-acyl	Cl	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	Cl	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	Cl	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2,8-Difluorohypoxanthine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	Cl	S	2-Aminoadenine	OH	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	Cl	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-acyl	H	S	Thymine	F	H
CF_3	O-acyl	H	S	Uracil	F	H
CF_3	O-acyl	H	S	Guanine	F	H
CF_3	O-acyl	H	S	Cytosine	F	H
CF_3	O-acyl	H	S	Adenine	F	H
CF_3	O-acyl	H	S	Hypoxanthine	F	H
CF_3	O-acyl	H	S	5-Fluorouracil	F	H
CF_3	O-acyl	H	S	8-Fluoroguanine	F	H
CF_3	O-acyl	H	S	5-Fluorocytosine	F	H
CF_3	O-acyl	H	S	8-Fluoroadenine	F	H
CF_3	O-acyl	H	S	2-Fluoroadenine	F	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-Aminoadenine	F	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	H
CF_3	O-acyl	H	S	2-N-acetylguanine	F	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	H
CF_3	O-acyl	H	S	6-N-acetyladenine	F	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-acyl	H	S	Thymine	F	O-amino acid
CF_3	O-acyl	H	S	Uracil	F	O-amino acid
CF_3	O-acyl	H	S	Guanine	F	O-amino acid
CF_3	O-acyl	H	S	Cytosine	F	O-amino acid
CF_3	O-acyl	H	S	Adenine	F	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-acyl	H	S	Thymine	F	O-acyl
CF_3	O-acyl	H	S	Uracil	F	O-acyl
CF_3	O-acyl	H	S	Guanine	F	O-acyl
CF_3	O-acyl	H	S	Cytosine	F	O-acyl
CF_3	O-acyl	H	S	Adenine	F	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	F	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	F	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	F	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	F	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-acyl	H	S	Thymine	F	OH
CF_3	O-acyl	H	S	Uracil	F	OH
CF_3	O-acyl	H	S	Guanine	F	OH
CF_3	O-acyl	H	S	Cytosine	F	OH
CF_3	O-acyl	H	S	Adenine	F	OH
CF_3	O-acyl	H	S	Hypoxanthine	F	OH
CF_3	O-acyl	H	S	5-Fluorouracil	F	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	F	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	F	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	F	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-Aminoadenine	F	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	F	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	F	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	F	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-acyl	H	S	Thymine	Br	H
CF_3	O-acyl	H	S	Uracil	Br	H
CF_3	O-acyl	H	S	Guanine	Br	H
CF_3	O-acyl	H	S	Cytosine	Br	H
CF_3	O-acyl	H	S	Adenine	Br	H
CF_3	O-acyl	H	S	Hypoxanthine	Br	H
CF_3	O-acyl	H	S	5-Fluorouracil	Br	H
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	H
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	H
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-Aminoadenine	Br	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	H
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-acyl	H	S	Thymine	Br	O-amino acid
CF_3	O-acyl	H	S	Uracil	Br	O-amino acid
CF_3	O-acyl	H	S	Guanine	Br	O-amino acid
CF_3	O-acyl	H	S	Cytosine	Br	O-amino acid
CF_3	O-acyl	H	S	Adenine	Br	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-acyl	H	S	Thymine	Br	O-acyl
CF_3	O-acyl	H	S	Uracil	Br	O-acyl
CF_3	O-acyl	H	S	Guanine	Br	O-acyl
CF_3	O-acyl	H	S	Cytosine	Br	O-acyl
CF_3	O-acyl	H	S	Adenine	Br	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-acyl	H	S	Thymine	Br	OH
CF_3	O-acyl	H	S	Uracil	Br	OH
CF_3	O-acyl	H	S	Guanine	Br	OH
CF_3	O-acyl	H	S	Cytosine	Br	OH
CF_3	O-acyl	H	S	Adenine	Br	OH
CF_3	O-acyl	H	S	Hypoxanthine	Br	OH
CF_3	O-acyl	H	S	5-Fluorouracil	Br	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	Br	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	Br	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-Aminoadenine	Br	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	Br	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-acyl	H	S	Thymine	Cl	H
CF_3	O-acyl	H	S	Uracil	Cl	H
CF_3	O-acyl	H	S	Guanine	Cl	H
CF_3	O-acyl	H	S	Cytosine	Cl	H
CF_3	O-acyl	H	S	Adenine	Cl	H
CF_3	O-acyl	H	S	Hypoxanthine	Cl	H
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	H
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	H
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-acyl	H	S	Thymine	Cl	O-amino acid
CF_3	O-acyl	H	S	Uracil	Cl	O-amino acid
CF_3	O-acyl	H	S	Guanine	Cl	O-amino acid
CF_3	O-acyl	H	S	Cytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	Adenine	Cl	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-acyl	H	S	Thymine	Cl	O-acyl
CF_3	O-acyl	H	S	Uracil	Cl	O-acyl
CF_3	O-acyl	H	S	Guanine	Cl	O-acyl
CF_3	O-acyl	H	S	Cytosine	Cl	O-acyl
CF_3	O-acyl	H	S	Adenine	Cl	O-acyl
CF_3	O-acyl	H	S	Hypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-acyl	H	S	Thymine	Cl	OH
CF_3	O-acyl	H	S	Uracil	Cl	OH
CF_3	O-acyl	H	S	Guanine	Cl	OH
CF_3	O-acyl	H	S	Cytosine	Cl	OH
CF_3	O-acyl	H	S	Adenine	Cl	OH
CF_3	O-acyl	H	S	Hypoxanthine	Cl	OH
CF_3	O-acyl	H	S	5-Fluorouracil	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	8-Fluoroguanine	Cl	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	Cl	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-Aminoadenine	Cl	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	Cl	OH
CF_3	O-acyl	H	S	4-N-acetylcytosine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-acyl	H	S	Thymine	H	H
CF_3	O-acyl	H	S	Uracil	H	H
CF_3	O-acyl	H	S	Guanine	H	H
CF_3	O-acyl	H	S	Cytosine	H	H
CF_3	O-acyl	H	S	Adenine	H	H
CF_3	O-acyl	H	S	Hypoxanthine	H	H
CF_3	O-acyl	H	S	5-Fluorouracil	H	H
CF_3	O-acyl	H	S	8-Fluoroguanine	H	H
CF_3	O-acyl	H	S	5-Fluorocytosine	H	H
CF_3	O-acyl	H	S	8-Fluoroadenine	H	H
CF_3	O-acyl	H	S	2-Fluoroadenine	H	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-Aminoadenine	H	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	H
CF_3	O-acyl	H	S	2-N-acetylguanine	H	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	H
CF_3	O-acyl	H	S	6-N-acetyladenine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-acyl	H	S	Thymine	H	O-amino acid
CF_3	O-acyl	H	S	Uracil	H	O-amino acid
CF_3	O-acyl	H	S	Guanine	H	O-amino acid
CF_3	O-acyl	H	S	Cytosine	H	O-amino acid
CF_3	O-acyl	H	S	Adenine	H	O-amino acid
CF_3	O-acyl	H	S	Hypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	5-Fluorouracil	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-Aminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-acyl	H	S	Thymine	H	O-acyl
CF_3	O-acyl	H	S	Uracil	H	O-acyl
CF_3	O-acyl	H	S	Guanine	H	O-acyl
CF_3	O-acyl	H	S	Cytosine	H	O-acyl
CF_3	O-acyl	H	S	Adenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	Hypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	5-Fluorouracil	H	O-acyl
CF_3	O-acyl	H	S	8-Fluoroguanine	H	O-acyl
CF_3	O-acyl	H	S	5-Fluorocytosine	H	O-acyl
CF_3	O-acyl	H	S	8-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-Aminoadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylguanine	H	O-acyl
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyladenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-acyl	H	S	Thymine	H	OH
CF_3	O-acyl	H	S	Uracil	H	OH
CF_3	O-acyl	H	S	Guanine	H	OH
CF_3	O-acyl	H	S	Cytosine	H	OH
CF_3	O-acyl	H	S	Adenine	H	OH
CF_3	O-acyl	H	S	Hypoxanthine	H	OH
CF_3	O-acyl	H	S	5-Fluorouracil	H	OH
CF_3	O-acyl	H	S	8-Fluoroguanine	H	OH
CF_3	O-acyl	H	S	5-Fluorocytosine	H	OH
CF_3	O-acyl	H	S	8-Fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Fluoroadenine	H	OH
CF_3	O-acyl	H	S	2,8-Difluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-Aminoadenine	H	OH
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-Aminohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-N-acetylguanine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-acyl	H	S	4-N-acetylcytosine	H	OH
CF_3	O-acyl	H	S	6-N-acetyladenine	H	OH
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-acyl	H	S	Thymine	OH	H
CF_3	O-acyl	H	S	Uracil	OH	H
CF_3	O-acyl	H	S	Guanine	OH	H
CF_3	O-acyl	H	S	Cytosine	OH	H
CF_3	O-acyl	H	S	Adenine	OH	H
CF_3	O-acyl	H	S	Hypoxanthine	OH	H
CF_3	O-acyl	H	S	5-Fluorouracil	OH	H
CF_3	O-acyl	H	S	8-Fluoroguanine	OH	H
CF_3	O-acyl	H	S	5-Fluorocytosine	OH	H
CF_3	O-acyl	H	S	8-Fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Fluoroadenine	OH	H
CF_3	O-acyl	H	S	2,8-Difluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	8-Fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-Aminoadenine	OH	H
CF_3	O-acyl	H	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-Aminohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-N-acetylguanine	OH	H
CF_3	O-acyl	H	S	4-N-acetylcytosine	OH	H
CF_3	O-acyl	H	S	6-N-acetyladenine	OH	H
CF_3	O-acyl	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-acyl	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-acyl	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylaminoadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-acyl	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-acyl	H	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	F	S	Thymine	F	H
CF_3	O-amino acid	F	S	Uracil	F	H
CF_3	O-amino acid	F	S	Guanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	Cytosine	F	H
CF_3	O-amino acid	F	S	Adenine	F	H
CF_3	O-amino acid	F	S	Hypoxanthine	F	H
CF_3	O-amino acid	F	S	5-Fluorouracil	F	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-Aminoadenine	F	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	F	S	Thymine	F	O-amino acid
CF_3	O-amino acid	F	S	Uracil	F	O-amino acid
CF_3	O-amino acid	F	S	Guanine	F	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	F	S	Adenine	F	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	F	S	Thymine	F	O-acyl
CF_3	O-amino acid	F	S	Uracil	F	O-acyl
CF_3	O-amino acid	F	S	Guanine	F	O-acyl
CF_3	O-amino acid	F	S	Cytosine	F	O-acyl
CF_3	O-amino acid	F	S	Adenine	F	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	F	S	Thymine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	Uracil	F	OH
CF_3	O-amino acid	F	S	Guanine	F	OH
CF_3	O-amino acid	F	S	Cytosine	F	OH
CF_3	O-amino acid	F	S	Adenine	F	OH
CF_3	O-amino acid	F	S	Hypoxanthine	F	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	F	S	Thymine	Br	H
CF_3	O-amino acid	F	S	Uracil	Br	H
CF_3	O-amino acid	F	S	Guanine	Br	H
CF_3	O-amino acid	F	S	Cytosine	Br	H
CF_3	O-amino acid	F	S	Adenine	Br	H
CF_3	O-amino acid	F	S	Hypoxanthine	Br	H
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	F	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	F	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	F	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	F	S	Thymine	Br	O-acyl
CF_3	O-amino acid	F	S	Uracil	Br	O-acyl
CF_3	O-amino acid	F	S	Guanine	Br	O-acyl
CF_3	O-amino acid	F	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	F	S	Adenine	Br	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	F	S	Thymine	Br	OH
CF_3	O-amino acid	F	S	Uracil	Br	OH
CF_3	O-amino acid	F	S	Guanine	Br	OH
CF_3	O-amino acid	F	S	Cytosine	Br	OH
CF_3	O-amino acid	F	S	Adenine	Br	OH
CF_3	O-amino acid	F	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	F	S	Thymine	Cl	H
CF_3	O-amino acid	F	S	Uracil	Cl	H
CF_3	O-amino acid	F	S	Guanine	Cl	H
CF_3	O-amino acid	F	S	Cytosine	Cl	H
CF_3	O-amino acid	F	S	Adenine	Cl	H
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	F	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	F	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	F	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	F	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	F	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	F	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	F	S	Thymine	Cl	OH
CF_3	O-amino acid	F	S	Uracil	Cl	OH
CF_3	O-amino acid	F	S	Guanine	Cl	OH
CF_3	O-amino acid	F	S	Cytosine	Cl	OH
CF_3	O-amino acid	F	S	Adenine	Cl	OH
CF_3	O-amino acid	F	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	F	S	Thymine	H	H
CF_3	O-amino acid	F	S	Uracil	H	H
CF_3	O-amino acid	F	S	Guanine	H	H
CF_3	O-amino acid	F	S	Cytosine	H	H
CF_3	O-amino acid	F	S	Adenine	H	H
CF_3	O-amino acid	F	S	Hypoxanthine	H	H
CF_3	O-amino acid	F	S	5-Fluorouracil	H	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-Aminoadenine	H	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	F	S	Thymine	H	O-amino acid
CF_3	O-amino acid	F	S	Uracil	H	O-amino acid
CF_3	O-amino acid	F	S	Guanine	H	O-amino acid
CF_3	O-amino acid	F	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	F	S	Adenine	H	O-amino acid
CF_3	O-amino acid	F	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	F	S	Thymine	H	O-acyl
CF_3	O-amino acid	F	S	Uracil	H	O-acyl
CF_3	O-amino acid	F	S	Guanine	H	O-acyl
CF_3	O-amino acid	F	S	Cytosine	H	O-acyl
CF_3	O-amino acid	F	S	Adenine	H	O-acyl
CF_3	O-amino acid	F	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	F	S	Thymine	H	OH
CF_3	O-amino acid	F	S	Uracil	H	OH
CF_3	O-amino acid	F	S	Guanine	H	OH
CF_3	O-amino acid	F	S	Cytosine	H	OH
CF_3	O-amino acid	F	S	Adenine	H	OH
CF_3	O-amino acid	F	S	Hypoxanthine	H	OH
CF_3	O-amino acid	F	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	F	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	F	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	F	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	F	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	F	S	Thymine	OH	H
CF_3	O-amino acid	F	S	Uracil	OH	H
CF_3	O-amino acid	F	S	Guanine	OH	H
CF_3	O-amino acid	F	S	Cytosine	OH	H
CF_3	O-amino acid	F	S	Adenine	OH	H
CF_3	O-amino acid	F	S	Hypoxanthine	OH	H
CF_3	O-amino acid	F	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	F	S	8-Fluoroguanine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	F	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	F	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	F	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	F	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	F	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	F	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	F	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	Thymine	F	H
CF_3	O-amino acid	Br	S	Uracil	F	H
CF_3	O-amino acid	Br	S	Guanine	F	H
CF_3	O-amino acid	Br	S	Cytosine	F	H
CF_3	O-amino acid	Br	S	Adenine	F	H
CF_3	O-amino acid	Br	S	Hypoxanthine	F	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Br	S	Thymine	F	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	F	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	F	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	F	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	F	O-acyl
CF_3	O-amino acid	Br	S	Uracil	F	O-acyl
CF_3	O-amino acid	Br	S	Guanine	F	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	F	O-acyl
CF_3	O-amino acid	Br	S	Adenine	F	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Br	S	Thymine	F	OH
CF_3	O-amino acid	Br	S	Uracil	F	OH
CF_3	O-amino acid	Br	S	Guanine	F	OH
CF_3	O-amino acid	Br	S	Cytosine	F	OH
CF_3	O-amino acid	Br	S	Adenine	F	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	F	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Br	S	Thymine	Br	H
CF_3	O-amino acid	Br	S	Uracil	Br	H
CF_3	O-amino acid	Br	S	Guanine	Br	H
CF_3	O-amino acid	Br	S	Cytosine	Br	H
CF_3	O-amino acid	Br	S	Adenine	Br	H
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Br	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	Br	O-acyl
CF_3	O-amino acid	Br	S	Uracil	Br	O-acyl
CF_3	O-amino acid	Br	S	Guanine	Br	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	Adenine	Br	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Br	S	Thymine	Br	OH
CF_3	O-amino acid	Br	S	Uracil	Br	OH
CF_3	O-amino acid	Br	S	Guanine	Br	OH
CF_3	O-amino acid	Br	S	Cytosine	Br	OH
CF_3	O-amino acid	Br	S	Adenine	Br	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Br	S	Thymine	Cl	H
CF_3	O-amino acid	Br	S	Uracil	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Guanine	Cl	H
CF_3	O-amino acid	Br	S	Cytosine	Cl	H
CF_3	O-amino acid	Br	S	Adenine	Cl	H
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Br	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	Br	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	Thymine	Cl	OH
CF_3	O-amino acid	Br	S	Uracil	Cl	OH
CF_3	O-amino acid	Br	S	Guanine	Cl	OH
CF_3	O-amino acid	Br	S	Cytosine	Cl	OH
CF_3	O-amino acid	Br	S	Adenine	Cl	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Br	S	Thymine	H	H
CF_3	O-amino acid	Br	S	Uracil	H	H
CF_3	O-amino acid	Br	S	Guanine	H	H
CF_3	O-amino acid	Br	S	Cytosine	H	H
CF_3	O-amino acid	Br	S	Adenine	H	H
CF_3	O-amino acid	Br	S	Hypoxanthine	H	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Br	S	Thymine	H	O-amino acid
CF_3	O-amino acid	Br	S	Uracil	H	O-amino acid
CF_3	O-amino acid	Br	S	Guanine	H	O-amino acid
CF_3	O-amino acid	Br	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	Adenine	H	O-amino acid
CF_3	O-amino acid	Br	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Br	S	Thymine	H	O-acyl
CF_3	O-amino acid	Br	S	Uracil	H	O-acyl
CF_3	O-amino acid	Br	S	Guanine	H	O-acyl
CF_3	O-amino acid	Br	S	Cytosine	H	O-acyl
CF_3	O-amino acid	Br	S	Adenine	H	O-acyl
CF_3	O-amino acid	Br	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Br	S	Thymine	H	OH
CF_3	O-amino acid	Br	S	Uracil	H	OH
CF_3	O-amino acid	Br	S	Guanine	H	OH
CF_3	O-amino acid	Br	S	Cytosine	H	OH
CF_3	O-amino acid	Br	S	Adenine	H	OH
CF_3	O-amino acid	Br	S	Hypoxanthine	H	OH
CF_3	O-amino acid	Br	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	Br	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Br	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Br	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Br	S	Thymine	OH	H
CF_3	O-amino acid	Br	S	Uracil	OH	H
CF_3	O-amino acid	Br	S	Guanine	OH	H
CF_3	O-amino acid	Br	S	Cytosine	OH	H
CF_3	O-amino acid	Br	S	Adenine	OH	H
CF_3	O-amino acid	Br	S	Hypoxanthine	OH	H
CF_3	O-amino acid	Br	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	Br	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Br	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Br	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Br	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Br	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Br	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Br	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	Thymine	F	H
CF_3	O-amino acid	Cl	S	Uracil	F	H
CF_3	O-amino acid	Cl	S	Guanine	F	H
CF_3	O-amino acid	Cl	S	Cytosine	F	H
CF_3	O-amino acid	Cl	S	Adenine	F	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	Cl	S	Thymine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	F	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	F	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	F	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	F	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	F	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	F	OH
CF_3	O-amino acid	Cl	S	Uracil	F	OH
CF_3	O-amino acid	Cl	S	Guanine	F	OH
CF_3	O-amino acid	Cl	S	Cytosine	F	OH
CF_3	O-amino acid	Cl	S	Adenine	F	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	Cl	S	Thymine	Br	H
CF_3	O-amino acid	Cl	S	Uracil	Br	H
CF_3	O-amino acid	Cl	S	Guanine	Br	H
CF_3	O-amino acid	Cl	S	Cytosine	Br	H
CF_3	O-amino acid	Cl	S	Adenine	Br	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	Cl	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	Br	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	Br	OH
CF_3	O-amino acid	Cl	S	Uracil	Br	OH
CF_3	O-amino acid	Cl	S	Guanine	Br	OH
CF_3	O-amino acid	Cl	S	Cytosine	Br	OH
CF_3	O-amino acid	Cl	S	Adenine	Br	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	Cl	S	Thymine	Cl	H
CF_3	O-amino acid	Cl	S	Uracil	Cl	H
CF_3	O-amino acid	Cl	S	Guanine	Cl	H
CF_3	O-amino acid	Cl	S	Cytosine	Cl	H
CF_3	O-amino acid	Cl	S	Adenine	Cl	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	Cl	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	Cl	OH
CF_3	O-amino acid	Cl	S	Uracil	Cl	OH
CF_3	O-amino acid	Cl	S	Guanine	Cl	OH
CF_3	O-amino acid	Cl	S	Cytosine	Cl	OH
CF_3	O-amino acid	Cl	S	Adenine	Cl	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	Cl	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	Cl	S	Thymine	H	H
CF_3	O-amino acid	Cl	S	Uracil	H	H
CF_3	O-amino acid	Cl	S	Guanine	H	H
CF_3	O-amino acid	Cl	S	Cytosine	H	H
CF_3	O-amino acid	Cl	S	Adenine	H	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	Cl	S	Thymine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Uracil	H	O-amino acid
CF_3	O-amino acid	Cl	S	Guanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Adenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	Cl	S	Thymine	H	O-acyl
CF_3	O-amino acid	Cl	S	Uracil	H	O-acyl
CF_3	O-amino acid	Cl	S	Guanine	H	O-acyl
CF_3	O-amino acid	Cl	S	Cytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	Adenine	H	O-acyl
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	Cl	S	Thymine	H	OH
CF_3	O-amino acid	Cl	S	Uracil	H	OH
CF_3	O-amino acid	Cl	S	Guanine	H	OH
CF_3	O-amino acid	Cl	S	Cytosine	H	OH
CF_3	O-amino acid	Cl	S	Adenine	H	OH
CF_3	O-amino acid	Cl	S	Hypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	Cl	S	Thymine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	Cl	S	Uracil	OH	H
CF_3	O-amino acid	Cl	S	Guanine	OH	H
CF_3	O-amino acid	Cl	S	Cytosine	OH	H
CF_3	O-amino acid	Cl	S	Adenine	OH	H
CF_3	O-amino acid	Cl	S	Hypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	Cl	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	Cl	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	Cl	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	Cl	S	4-N-acetylcytosine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	Cl	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	Cl	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	O-amino acid	H	S	Thymine	F	H
CF_3	O-amino acid	H	S	Uracil	F	H
CF_3	O-amino acid	H	S	Guanine	F	H
CF_3	O-amino acid	H	S	Cytosine	F	H
CF_3	O-amino acid	H	S	Adenine	F	H
CF_3	O-amino acid	H	S	Hypoxanthine	F	H
CF_3	O-amino acid	H	S	5-Fluorouracil	F	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-Aminoadenine	F	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	H
CF_3	O-amino acid	H	S	Thymine	F	O-amino acid
CF_3	O-amino acid	H	S	Uracil	F	O-amino acid
CF_3	O-amino acid	H	S	Guanine	F	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	F	O-amino acid
CF_3	O-amino acid	H	S	Adenine	F	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	O-amino acid	H	S	Thymine	F	O-acyl
CF_3	O-amino acid	H	S	Uracil	F	O-acyl
CF_3	O-amino acid	H	S	Guanine	F	O-acyl
CF_3	O-amino acid	H	S	Cytosine	F	O-acyl
CF_3	O-amino acid	H	S	Adenine	F	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	O-amino acid	H	S	Thymine	F	OH
CF_3	O-amino acid	H	S	Uracil	F	OH
CF_3	O-amino acid	H	S	Guanine	F	OH
CF_3	O-amino acid	H	S	Cytosine	F	OH
CF_3	O-amino acid	H	S	Adenine	F	OH
CF_3	O-amino acid	H	S	Hypoxanthine	F	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	F	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	F	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	F	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	F	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	F	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	F	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	F	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	F	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	F	OH
CF_3	O-amino acid	H	S	Thymine	Br	H
CF_3	O-amino acid	H	S	Uracil	Br	H
CF_3	O-amino acid	H	S	Guanine	Br	H
CF_3	O-amino acid	H	S	Cytosine	Br	H
CF_3	O-amino acid	H	S	Adenine	Br	H
CF_3	O-amino acid	H	S	Hypoxanthine	Br	H
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	H
CF_3	O-amino acid	H	S	Thymine	Br	O-amino acid
CF_3	O-amino acid	H	S	Uracil	Br	O-amino acid
CF_3	O-amino acid	H	S	Guanine	Br	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	Adenine	Br	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	O-amino acid	H	S	Thymine	Br	O-acyl
CF_3	O-amino acid	H	S	Uracil	Br	O-acyl
CF_3	O-amino acid	H	S	Guanine	Br	O-acyl
CF_3	O-amino acid	H	S	Cytosine	Br	O-acyl
CF_3	O-amino acid	H	S	Adenine	Br	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	O-amino acid	H	S	Thymine	Br	OH
CF_3	O-amino acid	H	S	Uracil	Br	OH
CF_3	O-amino acid	H	S	Guanine	Br	OH
CF_3	O-amino acid	H	S	Cytosine	Br	OH
CF_3	O-amino acid	H	S	Adenine	Br	OH
CF_3	O-amino acid	H	S	Hypoxanthine	Br	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	Br	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	Br	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	Br	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	Br	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	Br	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Br	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Br	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Br	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Br	OH
CF_3	O-amino acid	H	S	Thymine	Cl	H
CF_3	O-amino acid	H	S	Uracil	Cl	H
CF_3	O-amino acid	H	S	Guanine	Cl	H
CF_3	O-amino acid	H	S	Cytosine	Cl	H
CF_3	O-amino acid	H	S	Adenine	Cl	H
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	H
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	H
CF_3	O-amino acid	H	S	Thymine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Uracil	Cl	O-amino acid
CF_3	O-amino acid	H	S	Guanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Adenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	O-amino acid	H	S	Thymine	Cl	O-acyl
CF_3	O-amino acid	H	S	Uracil	Cl	O-acyl
CF_3	O-amino acid	H	S	Guanine	Cl	O-acyl
CF_3	O-amino acid	H	S	Cytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	Adenine	Cl	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	O-amino acid	H	S	Thymine	Cl	OH
CF_3	O-amino acid	H	S	Uracil	Cl	OH
CF_3	O-amino acid	H	S	Guanine	Cl	OH
CF_3	O-amino acid	H	S	Cytosine	Cl	OH
CF_3	O-amino acid	H	S	Adenine	Cl	OH
CF_3	O-amino acid	H	S	Hypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	5-Fluorouracil	Cl	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	Cl	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	Cl	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	Cl	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	Cl	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	Cl	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	Cl	OH
CF_3	O-amino acid	H	S	Thymine	H	H
CF_3	O-amino acid	H	S	Uracil	H	H
CF_3	O-amino acid	H	S	Guanine	H	H
CF_3	O-amino acid	H	S	Cytosine	H	H
CF_3	O-amino acid	H	S	Adenine	H	H
CF_3	O-amino acid	H	S	Hypoxanthine	H	H
CF_3	O-amino acid	H	S	5-Fluorouracil	H	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-Aminoadenine	H	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	H
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	H
CF_3	O-amino acid	H	S	Thymine	H	O-amino acid
CF_3	O-amino acid	H	S	Uracil	H	O-amino acid
CF_3	O-amino acid	H	S	Guanine	H	O-amino acid
CF_3	O-amino acid	H	S	Cytosine	H	O-amino acid
CF_3	O-amino acid	H	S	Adenine	H	O-amino acid
CF_3	O-amino acid	H	S	Hypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorouracil	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	O-amino acid	H	S	Thymine	H	O-acyl
CF_3	O-amino acid	H	S	Uracil	H	O-acyl
CF_3	O-amino acid	H	S	Guanine	H	O-acyl
CF_3	O-amino acid	H	S	Cytosine	H	O-acyl
CF_3	O-amino acid	H	S	Adenine	H	O-acyl
CF_3	O-amino acid	H	S	Hypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	5-Fluorouracil	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-Aminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	O-acyl
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	O-amino acid	H	S	Thymine	H	OH
CF_3	O-amino acid	H	S	Uracil	H	OH
CF_3	O-amino acid	H	S	Guanine	H	OH
CF_3	O-amino acid	H	S	Cytosine	H	OH
CF_3	O-amino acid	H	S	Adenine	H	OH
CF_3	O-amino acid	H	S	Hypoxanthine	H	OH

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	5-Fluorouracil	H	OH
CF_3	O-amino acid	H	S	8-Fluoroguanine	H	OH
CF_3	O-amino acid	H	S	5-Fluorocytosine	H	OH
CF_3	O-amino acid	H	S	8-Fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-Aminoadenine	H	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylguanine	H	OH
CF_3	O-amino acid	H	S	4-N-acetylcytosine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyladenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	H	OH
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	H	OH
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	OH
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	H	OH
CF_3	O-amino acid	H	S	Thymine	OH	H
CF_3	O-amino acid	H	S	Uracil	OH	H
CF_3	O-amino acid	H	S	Guanine	OH	H
CF_3	O-amino acid	H	S	Cytosine	OH	H
CF_3	O-amino acid	H	S	Adenine	OH	H
CF_3	O-amino acid	H	S	Hypoxanthine	OH	H
CF_3	O-amino acid	H	S	5-Fluorouracil	OH	H
CF_3	O-amino acid	H	S	8-Fluoroguanine	OH	H
CF_3	O-amino acid	H	S	5-Fluorocytosine	OH	H
CF_3	O-amino acid	H	S	8-Fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2,8-Difluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	8-Fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2,8-Difluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-Aminoadenine	OH	H
CF_3	O-amino acid	H	S	2-Amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-Amino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-Aminohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylguanine	OH	H
CF_3	O-amino acid	H	S	4-N-acetylcytosine	OH	H

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	O-amino acid	H	S	6-N-acetyladenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetyl-8-fluoroguanine	OH	H
CF_3	O-amino acid	H	S	4-N-acetyl-5-fluorocytosine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2,8-difluoroadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-aminoadenine	OH	H
CF_3	O-amino acid	H	S	6-N-acetyl-2-amino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylaminoadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluoroadenine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylamino-8-fluorohypoxanthine	OH	H
CF_3	O-amino acid	H	S	2-N-acetylaminohypoxanthine	OH	H
CF_3	OH	F	S	Thymine	F	O-amino acid
CF_3	OH	F	S	Uracil	F	O-amino acid
CF_3	OH	F	S	Guanine	F	O-amino acid
CF_3	OH	F	S	Cytosine	F	O-amino acid
CF_3	OH	F	S	Adenine	F	O-amino acid
CF_3	OH	F	S	Hypoxanthine	F	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	F	S	Thymine	F	O-acyl
CF_3	OH	F	S	Uracil	F	O-acyl
CF_3	OH	F	S	Guanine	F	O-acyl
CF_3	OH	F	S	Cytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Adenine	F	O-acyl
CF_3	OH	F	S	Hypoxanthine	F	O-acyl
CF_3	OH	F	S	5-Fluorouracil	F	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-Aminoadenine	F	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	F	S	Thymine	Br	O-amino acid
CF_3	OH	F	S	Uracil	Br	O-amino acid
CF_3	OH	F	S	Guanine	Br	O-amino acid
CF_3	OH	F	S	Cytosine	Br	O-amino acid
CF_3	OH	F	S	Adenine	Br	O-amino acid
CF_3	OH	F	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	F	S	Thymine	Br	O-acyl
CF_3	OH	F	S	Uracil	Br	O-acyl
CF_3	OH	F	S	Guanine	Br	O-acyl
CF_3	OH	F	S	Cytosine	Br	O-acyl
CF_3	OH	F	S	Adenine	Br	O-acyl
CF_3	OH	F	S	Hypoxanthine	Br	O-acyl
CF_3	OH	F	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	Br	O-acyl
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CF_3	OH	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	F	S	Thymine	Cl	O-amino acid
CF_3	OH	F	S	Uracil	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Guanine	Cl	O-amino acid
CF_3	OH	F	S	Cytosine	Cl	O-amino acid
CF_3	OH	F	S	Adenine	Cl	O-amino acid
CF_3	OH	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	F	S	Thymine	Cl	O-acyl
CF_3	OH	F	S	Uracil	Cl	O-acyl
CF_3	OH	F	S	Guanine	Cl	O-acyl
CF_3	OH	F	S	Cytosine	Cl	O-acyl
CF_3	OH	F	S	Adenine	Cl	O-acyl
CF_3	OH	F	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	F	S	Thymine	H	O-amino acid
CF_3	OH	F	S	Uracil	H	O-amino acid
CF_3	OH	F	S	Guanine	H	O-amino acid
CF_3	OH	F	S	Cytosine	H	O-amino acid
CF_3	OH	F	S	Adenine	H	O-amino acid
CF_3	OH	F	S	Hypoxanthine	H	O-amino acid
CF_3	OH	F	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	F	S	Thymine	H	O-acyl
CF_3	OH	F	S	Uracil	H	O-acyl
CF_3	OH	F	S	Guanine	H	O-acyl
CF_3	OH	F	S	Cytosine	H	O-acyl
CF_3	OH	F	S	Adenine	H	O-acyl
CF_3	OH	F	S	Hypoxanthine	H	O-acyl
CF_3	OH	F	S	5-Fluorouracil	H	O-acyl
CF_3	OH	F	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	F	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	F	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-Aminoadenine	H	O-acyl
CF_3	OH	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	F	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Br	S	Thymine	F	O-amino acid
CF_3	OH	Br	S	Uracil	F	O-amino acid
CF_3	OH	Br	S	Guanine	F	O-amino acid
CF_3	OH	Br	S	Cytosine	F	O-amino acid
CF_3	OH	Br	S	Adenine	F	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	F	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Br	S	Thymine	F	O-acyl
CF_3	OH	Br	S	Uracil	F	O-acyl
CF_3	OH	Br	S	Guanine	F	O-acyl
CF_3	OH	Br	S	Cytosine	F	O-acyl
CF_3	OH	Br	S	Adenine	F	O-acyl
CF_3	OH	Br	S	Hypoxanthine	F	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	F	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	F	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Br	S	Thymine	Br	O-amino acid
CF_3	OH	Br	S	Uracil	Br	O-amino acid
CF_3	OH	Br	S	Guanine	Br	O-amino acid
CF_3	OH	Br	S	Cytosine	Br	O-amino acid
CF_3	OH	Br	S	Adenine	Br	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Br	S	Thymine	Br	O-acyl
CF_3	OH	Br	S	Uracil	Br	O-acyl
CF_3	OH	Br	S	Guanine	Br	O-acyl
CF_3	OH	Br	S	Cytosine	Br	O-acyl
CF_3	OH	Br	S	Adenine	Br	O-acyl
CF_3	OH	Br	S	Hypoxanthine	Br	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Br	S	Thymine	Cl	O-amino acid
CF_3	OH	Br	S	Uracil	Cl	O-amino acid
CF_3	OH	Br	S	Guanine	Cl	O-amino acid
CF_3	OH	Br	S	Cytosine	Cl	O-amino acid
CF_3	OH	Br	S	Adenine	Cl	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Br	S	Thymine	Cl	O-acyl
CF_3	OH	Br	S	Uracil	Cl	O-acyl
CF_3	OH	Br	S	Guanine	Cl	O-acyl
CF_3	OH	Br	S	Cytosine	Cl	O-acyl
CF_3	OH	Br	S	Adenine	Cl	O-acyl
CF_3	OH	Br	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Br	S	Thymine	H	O-amino acid
CF_3	OH	Br	S	Uracil	H	O-amino acid
CF_3	OH	Br	S	Guanine	H	O-amino acid
CF_3	OH	Br	S	Cytosine	H	O-amino acid
CF_3	OH	Br	S	Adenine	H	O-amino acid
CF_3	OH	Br	S	Hypoxanthine	H	O-amino acid
CF_3	OH	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Fluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Br	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Br	S	Thymine	H	O-acyl
CF_3	OH	Br	S	Uracil	H	O-acyl
CF_3	OH	Br	S	Guanine	H	O-acyl
CF_3	OH	Br	S	Cytosine	H	O-acyl
CF_3	OH	Br	S	Adenine	H	O-acyl
CF_3	OH	Br	S	Hypoxanthine	H	O-acyl
CF_3	OH	Br	S	5-Fluorouracil	H	O-acyl
CF_3	OH	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-Aminoadenine	H	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	Br	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	Thymine	F	O-amino acid
CF_3	OH	Cl	S	Uracil	F	O-amino acid
CF_3	OH	Cl	S	Guanine	F	O-amino acid
CF_3	OH	Cl	S	Cytosine	F	O-amino acid
CF_3	OH	Cl	S	Adenine	F	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	Cl	S	Thymine	F	O-acyl
CF_3	OH	Cl	S	Uracil	F	O-acyl
CF_3	OH	Cl	S	Guanine	F	O-acyl
CF_3	OH	Cl	S	Cytosine	F	O-acyl
CF_3	OH	Cl	S	Adenine	F	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	F	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	Cl	S	Thymine	Br	O-amino acid
CF_3	OH	Cl	S	Uracil	Br	O-amino acid
CF_3	OH	Cl	S	Guanine	Br	O-amino acid
CF_3	OH	Cl	S	Cytosine	Br	O-amino acid
CF_3	OH	Cl	S	Adenine	Br	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	Cl	S	Thymine	Br	O-acyl
CF_3	OH	Cl	S	Uracil	Br	O-acyl
CF_3	OH	Cl	S	Guanine	Br	O-acyl
CF_3	OH	Cl	S	Cytosine	Br	O-acyl
CF_3	OH	Cl	S	Adenine	Br	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	Cl	S	Thymine	Cl	O-amino acid
CF_3	OH	Cl	S	Uracil	Cl	O-amino acid
CF_3	OH	Cl	S	Guanine	Cl	O-amino acid
CF_3	OH	Cl	S	Cytosine	Cl	O-amino acid
CF_3	OH	Cl	S	Adenine	Cl	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	Cl	S	Thymine	Cl	O-acyl
CF_3	OH	Cl	S	Uracil	Cl	O-acyl
CF_3	OH	Cl	S	Guanine	Cl	O-acyl
CF_3	OH	Cl	S	Cytosine	Cl	O-acyl
CF_3	OH	Cl	S	Adenine	Cl	O-acyl
CF_3	OH	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	Cl	S	Thymine	H	O-amino acid
CF_3	OH	Cl	S	Uracil	H	O-amino acid
CF_3	OH	Cl	S	Guanine	H	O-amino acid
CF_3	OH	Cl	S	Cytosine	H	O-amino acid
CF_3	OH	Cl	S	Adenine	H	O-amino acid
CF_3	OH	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	Cl	S	Thymine	H	O-acyl
CF_3	OH	Cl	S	Uracil	H	O-acyl
CF_3	OH	Cl	S	Guanine	H	O-acyl
CF_3	OH	Cl	S	Cytosine	H	O-acyl
CF_3	OH	Cl	S	Adenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	Cl	S	Hypoxanthine	H	O-acyl
CF_3	OH	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	OH	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	OH	H	S	Thymine	F	O-amino acid
CF_3	OH	H	S	Uracil	F	O-amino acid
CF_3	OH	H	S	Guanine	F	O-amino acid
CF_3	OH	H	S	Cytosine	F	O-amino acid
CF_3	OH	H	S	Adenine	F	O-amino acid
CF_3	OH	H	S	Hypoxanthine	F	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	F	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	F	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	OH	H	S	Thymine	F	O-acyl
CF_3	OH	H	S	Uracil	F	O-acyl
CF_3	OH	H	S	Guanine	F	O-acyl
CF_3	OH	H	S	Cytosine	F	O-acyl
CF_3	OH	H	S	Adenine	F	O-acyl
CF_3	OH	H	S	Hypoxanthine	F	O-acyl
CF_3	OH	H	S	5-Fluorouracil	F	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	F	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	F	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	F	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-Aminoadenine	F	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	F	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	F	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	OH	H	S	Thymine	Br	O-amino acid
CF_3	OH	H	S	Uracil	Br	O-amino acid
CF_3	OH	H	S	Guanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	Cytosine	Br	O-amino acid
CF_3	OH	H	S	Adenine	Br	O-amino acid
CF_3	OH	H	S	Hypoxanthine	Br	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	OH	H	S	Thymine	Br	O-acyl
CF_3	OH	H	S	Uracil	Br	O-acyl
CF_3	OH	H	S	Guanine	Br	O-acyl
CF_3	OH	H	S	Cytosine	Br	O-acyl
CF_3	OH	H	S	Adenine	Br	O-acyl
CF_3	OH	H	S	Hypoxanthine	Br	O-acyl
CF_3	OH	H	S	5-Fluorouracil	Br	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-Aminoadenine	Br	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	OH	H	S	Thymine	Cl	O-amino acid
CF_3	OH	H	S	Uracil	Cl	O-amino acid
CF_3	OH	H	S	Guanine	Cl	O-amino acid
CF_3	OH	H	S	Cytosine	Cl	O-amino acid
CF_3	OH	H	S	Adenine	Cl	O-amino acid
CF_3	OH	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	OH	H	S	Thymine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	Uracil	Cl	O-acyl
CF_3	OH	H	S	Guanine	Cl	O-acyl
CF_3	OH	H	S	Cytosine	Cl	O-acyl
CF_3	OH	H	S	Adenine	Cl	O-acyl
CF_3	OH	H	S	Hypoxanthine	Cl	O-acyl
CF_3	OH	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	OH	H	S	Thymine	H	O-amino acid
CF_3	OH	H	S	Uracil	H	O-amino acid
CF_3	OH	H	S	Guanine	H	O-amino acid
CF_3	OH	H	S	Cytosine	H	O-amino acid
CF_3	OH	H	S	Adenine	H	O-amino acid
CF_3	OH	H	S	Hypoxanthine	H	O-amino acid
CF_3	OH	H	S	5-Fluorouracil	H	O-amino acid
CF_3	OH	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	OH	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	OH	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-Aminoadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	OH	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	OH	H	S	Thymine	H	O-acyl
CF_3	OH	H	S	Uracil	H	O-acyl
CF_3	OH	H	S	Guanine	H	O-acyl
CF_3	OH	H	S	Cytosine	H	O-acyl
CF_3	OH	H	S	Adenine	H	O-acyl
CF_3	OH	H	S	Hypoxanthine	H	O-acyl
CF_3	OH	H	S	5-Fluorouracil	H	O-acyl
CF_3	OH	H	S	8-Fluoroguanine	H	O-acyl
CF_3	OH	H	S	5-Fluorocytosine	H	O-acyl
CF_3	OH	H	S	8-Fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Fluoroadenine	H	O-acyl
CF_3	OH	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-Aminoadenine	H	O-acyl
CF_3	OH	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	OH	H	S	2-N-acetylguanine	H	O-acyl
CF_3	OH	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	OH	H	S	6-N-acetyladenine	H	O-acyl
CF_3	OH	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	OH	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	OH	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	OH	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	OH	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	F	S	Thymine	F	O-amino acid
CF_3	H	F	S	Uracil	F	O-amino acid
CF_3	H	F	S	Guanine	F	O-amino acid
CF_3	H	F	S	Cytosine	F	O-amino acid
CF_3	H	F	S	Adenine	F	O-amino acid
CF_3	H	F	S	Hypoxanthine	F	O-amino acid
CF_3	H	F	S	5-Fluorouracil	F	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-Aminoadenine	F	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	F	S	Thymine	F	O-acyl
CF_3	H	F	S	Uracil	F	O-acyl
CF_3	H	F	S	Guanine	F	O-acyl
CF_3	H	F	S	Cytosine	F	O-acyl
CF_3	H	F	S	Adenine	F	O-acyl
CF_3	H	F	S	Hypoxanthine	F	O-acyl
CF_3	H	F	S	5-Fluorouracil	F	O-acyl
CF_3	H	F	S	8-Fluoroguanine	F	O-acyl
CF_3	H	F	S	5-Fluorocytosine	F	O-acyl
CF_3	H	F	S	8-Fluoroadenine	F	O-acyl
CF_3	H	F	S	2-Fluoroadenine	F	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-Aminoadenine	F	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	F	S	2-N-acetylguanine	F	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	F	S	6-N-acetyladenine	F	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	F	S	Thymine	Br	O-amino acid
CF_3	H	F	S	Uracil	Br	O-amino acid
CF_3	H	F	S	Guanine	Br	O-amino acid
CF_3	H	F	S	Cytosine	Br	O-amino acid
CF_3	H	F	S	Adenine	Br	O-amino acid
CF_3	H	F	S	Hypoxanthine	Br	O-amino acid
CF_3	H	F	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	F	S	Thymine	Br	O-acyl
CF_3	H	F	S	Uracil	Br	O-acyl
CF_3	H	F	S	Guanine	Br	O-acyl
CF_3	H	F	S	Cytosine	Br	O-acyl
CF_3	H	F	S	Adenine	Br	O-acyl
CF_3	H	F	S	Hypoxanthine	Br	O-acyl
CF_3	H	F	S	5-Fluorouracil	Br	O-acyl
CF_3	H	F	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	F	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	F	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-Aminoadenine	Br	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	F	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	F	S	Thymine	Cl	O-amino acid
CF_3	H	F	S	Uracil	Cl	O-amino acid
CF_3	H	F	S	Guanine	Cl	O-amino acid
CF_3	H	F	S	Cytosine	Cl	O-amino acid
CF_3	H	F	S	Adenine	Cl	O-amino acid
CF_3	H	F	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	F	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	F	S	Thymine	Cl	O-acyl
CF_3	H	F	S	Uracil	Cl	O-acyl
CF_3	H	F	S	Guanine	Cl	O-acyl
CF_3	H	F	S	Cytosine	Cl	O-acyl
CF_3	H	F	S	Adenine	Cl	O-acyl
CF_3	H	F	S	Hypoxanthine	Cl	O-acyl
CF_3	H	F	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	F	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	F	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	F	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	F	S	Thymine	H	O-amino acid
CF_3	H	F	S	Uracil	H	O-amino acid
CF_3	H	F	S	Guanine	H	O-amino acid
CF_3	H	F	S	Cytosine	H	O-amino acid
CF_3	H	F	S	Adenine	H	O-amino acid
CF_3	H	F	S	Hypoxanthine	H	O-amino acid
CF_3	H	F	S	5-Fluorouracil	H	O-amino acid
CF_3	H	F	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	F	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	F	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	F	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-Aminoadenine	H	O-amino acid
CF_3	H	F	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	F	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	F	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	F	S	Thymine	H	O-acyl
CF_3	H	F	S	Uracil	H	O-acyl
CF_3	H	F	S	Guanine	H	O-acyl
CF_3	H	F	S	Cytosine	H	O-acyl
CF_3	H	F	S	Adenine	H	O-acyl
CF_3	H	F	S	Hypoxanthine	H	O-acyl
CF_3	H	F	S	5-Fluorouracil	H	O-acyl
CF_3	H	F	S	8-Fluoroguanine	H	O-acyl
CF_3	H	F	S	5-Fluorocytosine	H	O-acyl
CF_3	H	F	S	8-Fluoroadenine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	F	S	2-Fluoroadenine	H	O-acyl
CF_3	H	F	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	F	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-Aminoadenine	H	O-acyl
CF_3	H	F	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	F	S	2-N-acetylguanine	H	O-acyl
CF_3	H	F	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	F	S	6-N-acetyladenine	H	O-acyl
CF_3	H	F	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	F	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	F	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	F	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	F	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Br	S	Thymine	F	O-amino acid
CF_3	H	Br	S	Uracil	F	O-amino acid
CF_3	H	Br	S	Guanine	F	O-amino acid
CF_3	H	Br	S	Cytosine	F	O-amino acid
CF_3	H	Br	S	Adenine	F	O-amino acid
CF_3	H	Br	S	Hypoxanthine	F	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	F	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	F	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Br	S	Thymine	F	O-acyl
CF_3	H	Br	S	Uracil	F	O-acyl
CF_3	H	Br	S	Guanine	F	O-acyl
CF_3	H	Br	S	Cytosine	F	O-acyl
CF_3	H	Br	S	Adenine	F	O-acyl
CF_3	H	Br	S	Hypoxanthine	F	O-acyl
CF_3	H	Br	S	5-Fluorouracil	F	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	F	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	F	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	F	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-Aminoadenine	F	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	F	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	F	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Br	S	Thymine	Br	O-amino acid
CF_3	H	Br	S	Uracil	Br	O-amino acid
CF_3	H	Br	S	Guanine	Br	O-amino acid
CF_3	H	Br	S	Cytosine	Br	O-amino acid
CF_3	H	Br	S	Adenine	Br	O-amino acid
CF_3	H	Br	S	Hypoxanthine	Br	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Br	S	Thymine	Br	O-acyl
CF_3	H	Br	S	Uracil	Br	O-acyl
CF_3	H	Br	S	Guanine	Br	O-acyl
CF_3	H	Br	S	Cytosine	Br	O-acyl
CF_3	H	Br	S	Adenine	Br	O-acyl
CF_3	H	Br	S	Hypoxanthine	Br	O-acyl
CF_3	H	Br	S	5-Fluorouracil	Br	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-Aminoadenine	Br	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Br	S	Thymine	Cl	O-amino acid
CF_3	H	Br	S	Uracil	Cl	O-amino acid
CF_3	H	Br	S	Guanine	Cl	O-amino acid
CF_3	H	Br	S	Cytosine	Cl	O-amino acid
CF_3	H	Br	S	Adenine	Cl	O-amino acid
CF_3	H	Br	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Br	S	Thymine	Cl	O-acyl
CF_3	H	Br	S	Uracil	Cl	O-acyl
CF_3	H	Br	S	Guanine	Cl	O-acyl
CF_3	H	Br	S	Cytosine	Cl	O-acyl
CF_3	H	Br	S	Adenine	Cl	O-acyl
CF_3	H	Br	S	Hypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Br	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	Br	S	Thymine	H	O-amino acid
CF_3	H	Br	S	Uracil	H	O-amino acid
CF_3	H	Br	S	Guanine	H	O-amino acid
CF_3	H	Br	S	Cytosine	H	O-amino acid
CF_3	H	Br	S	Adenine	H	O-amino acid
CF_3	H	Br	S	Hypoxanthine	H	O-amino acid
CF_3	H	Br	S	5-Fluorouracil	H	O-amino acid
CF_3	H	Br	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	Br	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	Br	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-Aminoadenine	H	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	Br	S	4-N-acetylcytosine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Br	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Br	S	Thymine	H	O-acyl
CF_3	H	Br	S	Uracil	H	O-acyl
CF_3	H	Br	S	Guanine	H	O-acyl
CF_3	H	Br	S	Cytosine	H	O-acyl
CF_3	H	Br	S	Adenine	H	O-acyl
CF_3	H	Br	S	Hypoxanthine	H	O-acyl
CF_3	H	Br	S	5-Fluorouracil	H	O-acyl
CF_3	H	Br	S	8-Fluoroguanine	H	O-acyl
CF_3	H	Br	S	5-Fluorocytosine	H	O-acyl
CF_3	H	Br	S	8-Fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Fluoroadenine	H	O-acyl
CF_3	H	Br	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-Aminoadenine	H	O-acyl
CF_3	H	Br	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-N-acetylguanine	H	O-acyl
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CF_3	H	Br	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Br	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Br	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Br	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Br	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	Cl	S	Thymine	F	O-amino acid
CF_3	H	Cl	S	Uracil	F	O-amino acid
CF_3	H	Cl	S	Guanine	F	O-amino acid
CF_3	H	Cl	S	Cytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Adenine	F	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	F	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	F	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	F	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	Cl	S	Thymine	F	O-acyl
CF_3	H	Cl	S	Uracil	F	O-acyl
CF_3	H	Cl	S	Guanine	F	O-acyl
CF_3	H	Cl	S	Cytosine	F	O-acyl
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CF_3	H	Cl	S	Hypoxanthine	F	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	F	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	F	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	F	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	F	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-N-acetylguanine	F	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	Cl	S	Thymine	Br	O-amino acid
CF_3	H	Cl	S	Uracil	Br	O-amino acid
CF_3	H	Cl	S	Guanine	Br	O-amino acid
CF_3	H	Cl	S	Cytosine	Br	O-amino acid
CF_3	H	Cl	S	Adenine	Br	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	Cl	S	Thymine	Br	O-acyl
CF_3	H	Cl	S	Uracil	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Guanine	Br	O-acyl
CF_3	H	Cl	S	Cytosine	Br	O-acyl
CF_3	H	Cl	S	Adenine	Br	O-acyl
CF_3	H	Cl	S	Hypoxanthine	Br	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	Br	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	Br	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	Cl	S	Thymine	Cl	O-amino acid
CF_3	H	Cl	S	Uracil	Cl	O-amino acid
CF_3	H	Cl	S	Guanine	Cl	O-amino acid
CF_3	H	Cl	S	Cytosine	Cl	O-amino acid
CF_3	H	Cl	S	Adenine	Cl	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	Cl	S	Thymine	Cl	O-acyl
CF_3	H	Cl	S	Uracil	Cl	O-acyl
CF_3	H	Cl	S	Guanine	Cl	O-acyl
CF_3	H	Cl	S	Cytosine	Cl	O-acyl
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CF_3	H	Cl	S	Hypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	Thymine	H	O-amino acid
CF_3	H	Cl	S	Uracil	H	O-amino acid
CF_3	H	Cl	S	Guanine	H	O-amino acid
CF_3	H	Cl	S	Cytosine	H	O-amino acid
CF_3	H	Cl	S	Adenine	H	O-amino acid
CF_3	H	Cl	S	Hypoxanthine	H	O-amino acid
CF_3	H	Cl	S	5-Fluorouracil	H	O-amino acid
CF_3	H	Cl	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	Cl	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	Cl	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-Aminoadenine	H	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	Cl	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	Cl	S	Thymine	H	O-acyl
CF_3	H	Cl	S	Uracil	H	O-acyl
CF_3	H	Cl	S	Guanine	H	O-acyl
CF_3	H	Cl	S	Cytosine	H	O-acyl
CF_3	H	Cl	S	Adenine	H	O-acyl
CF_3	H	Cl	S	Hypoxanthine	H	O-acyl
CF_3	H	Cl	S	5-Fluorouracil	H	O-acyl
CF_3	H	Cl	S	8-Fluoroguanine	H	O-acyl
CF_3	H	Cl	S	5-Fluorocytosine	H	O-acyl
CF_3	H	Cl	S	8-Fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2,8-Difluorohypoxanthine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	Cl	S	2-Aminoadenine	H	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylguanine	H	O-acyl
CF_3	H	Cl	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyladenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	Cl	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	Cl	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	Cl	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	H	S	Thymine	F	O-amino acid
CF_3	H	H	S	Uracil	F	O-amino acid
CF_3	H	H	S	Guanine	F	O-amino acid
CF_3	H	H	S	Cytosine	F	O-amino acid
CF_3	H	H	S	Adenine	F	O-amino acid
CF_3	H	H	S	Hypoxanthine	F	O-amino acid
CF_3	H	H	S	5-Fluorouracil	F	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	F	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-Aminoadenine	F	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	H	S	Thymine	F	O-acyl
CF_3	H	H	S	Uracil	F	O-acyl
CF_3	H	H	S	Guanine	F	O-acyl
CF_3	H	H	S	Cytosine	F	O-acyl
CF_3	H	H	S	Adenine	F	O-acyl
CF_3	H	H	S	Hypoxanthine	F	O-acyl
CF_3	H	H	S	5-Fluorouracil	F	O-acyl
CF_3	H	H	S	8-Fluoroguanine	F	O-acyl
CF_3	H	H	S	5-Fluorocytosine	F	O-acyl
CF_3	H	H	S	8-Fluoroadenine	F	O-acyl
CF_3	H	H	S	2-Fluoroadenine	F	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-Aminoadenine	F	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	H	S	2-N-acetylguanine	F	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	H	S	6-N-acetyladenine	F	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	H	S	Thymine	Br	O-amino acid
CF_3	H	H	S	Uracil	Br	O-amino acid
CF_3	H	H	S	Guanine	Br	O-amino acid
CF_3	H	H	S	Cytosine	Br	O-amino acid
CF_3	H	H	S	Adenine	Br	O-amino acid
CF_3	H	H	S	Hypoxanthine	Br	O-amino acid
CF_3	H	H	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	Br	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	H	S	Thymine	Br	O-acyl
CF_3	H	H	S	Uracil	Br	O-acyl
CF_3	H	H	S	Guanine	Br	O-acyl
CF_3	H	H	S	Cytosine	Br	O-acyl
CF_3	H	H	S	Adenine	Br	O-acyl
CF_3	H	H	S	Hypoxanthine	Br	O-acyl
CF_3	H	H	S	5-Fluorouracil	Br	O-acyl
CF_3	H	H	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	H	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	H	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-Aminoadenine	Br	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	H	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	H	S	Thymine	Cl	O-amino acid
CF_3	H	H	S	Uracil	Cl	O-amino acid
CF_3	H	H	S	Guanine	Cl	O-amino acid
CF_3	H	H	S	Cytosine	Cl	O-amino acid
CF_3	H	H	S	Adenine	Cl	O-amino acid
CF_3	H	H	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	H	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	H	S	Thymine	Cl	O-acyl
CF_3	H	H	S	Uracil	Cl	O-acyl
CF_3	H	H	S	Guanine	Cl	O-acyl
CF_3	H	H	S	Cytosine	Cl	O-acyl
CF_3	H	H	S	Adenine	Cl	O-acyl
CF_3	H	H	S	Hypoxanthine	Cl	O-acyl
CF_3	H	H	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	H	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	H	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	H	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Fluoroadenine	Cl	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	H	S	Thymine	H	O-amino acid
CF_3	H	H	S	Uracil	H	O-amino acid
CF_3	H	H	S	Guanine	H	O-amino acid
CF_3	H	H	S	Cytosine	H	O-amino acid
CF_3	H	H	S	Adenine	H	O-amino acid
CF_3	H	H	S	Hypoxanthine	H	O-amino acid
CF_3	H	H	S	5-Fluorouracil	H	O-amino acid
CF_3	H	H	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	H	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	H	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	H	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-Aminoadenine	H	O-amino acid
CF_3	H	H	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	H	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	H	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	H	S	Thymine	H	O-acyl
CF_3	H	H	S	Uracil	H	O-acyl
CF_3	H	H	S	Guanine	H	O-acyl
CF_3	H	H	S	Cytosine	H	O-acyl
CF_3	H	H	S	Adenine	H	O-acyl
CF_3	H	H	S	Hypoxanthine	H	O-acyl
CF_3	H	H	S	5-Fluorouracil	H	O-acyl
CF_3	H	H	S	8-Fluoroguanine	H	O-acyl
CF_3	H	H	S	5-Fluorocytosine	H	O-acyl
CF_3	H	H	S	8-Fluoroadenine	H	O-acyl
CF_3	H	H	S	2-Fluoroadenine	H	O-acyl
CF_3	H	H	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	H	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-Aminoadenine	H	O-acyl
CF_3	H	H	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	H	S	2-N-acetylguanine	H	O-acyl
CF_3	H	H	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	H	S	6-N-acetyladenine	H	O-acyl
CF_3	H	H	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	H	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	H	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	H	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	H	S	2-N-acetylaminohypoxanthine	H	O-acyl
CF_3	H	OH	S	Thymine	F	O-amino acid
CF_3	H	OH	S	Uracil	F	O-amino acid
CF_3	H	OH	S	Guanine	F	O-amino acid
CF_3	H	OH	S	Cytosine	F	O-amino acid
CF_3	H	OH	S	Adenine	F	O-amino acid
CF_3	H	OH	S	Hypoxanthine	F	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	F	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	F	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	F	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	8-Fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	F	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	F	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-amino acid
CF_3	H	OH	S	Thymine	F	O-acyl
CF_3	H	OH	S	Uracil	F	O-acyl
CF_3	H	OH	S	Guanine	F	O-acyl
CF_3	H	OH	S	Cytosine	F	O-acyl
CF_3	H	OH	S	Adenine	F	O-acyl
CF_3	H	OH	S	Hypoxanthine	F	O-acyl
CF_3	H	OH	S	5-Fluorouracil	F	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	F	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	F	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	F	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-Aminoadenine	F	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	F	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	F	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	F	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	F	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	F	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	F	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	F	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	F	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	F	O-acyl
CF_3	H	OH	S	Thymine	Br	O-amino acid
CF_3	H	OH	S	Uracil	Br	O-amino acid
CF_3	H	OH	S	Guanine	Br	O-amino acid
CF_3	H	OH	S	Cytosine	Br	O-amino acid
CF_3	H	OH	S	Adenine	Br	O-amino acid
CF_3	H	OH	S	Hypoxanthine	Br	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	Br	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	Br	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	Br	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	Br	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	Br	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-amino acid
CF_3	H	OH	S	Thymine	Br	O-acyl
CF_3	H	OH	S	Uracil	Br	O-acyl
CF_3	H	OH	S	Guanine	Br	O-acyl
CF_3	H	OH	S	Cytosine	Br	O-acyl
CF_3	H	OH	S	Adenine	Br	O-acyl
CF_3	H	OH	S	Hypoxanthine	Br	O-acyl
CF_3	H	OH	S	5-Fluorouracil	Br	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	8-Fluoroguanine	Br	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	Br	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-Aminoadenine	Br	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	Br	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Br	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Br	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Br	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Br	O-acyl
CF_3	H	OH	S	Thymine	Cl	O-amino acid
CF_3	H	OH	S	Uracil	Cl	O-amino acid
CF_3	H	OH	S	Guanine	Cl	O-amino acid
CF_3	H	OH	S	Cytosine	Cl	O-amino acid
CF_3	H	OH	S	Adenine	Cl	O-amino acid
CF_3	H	OH	S	Hypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	Cl	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	Cl	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	Cl	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	Cl	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	Cl	O-amino acid

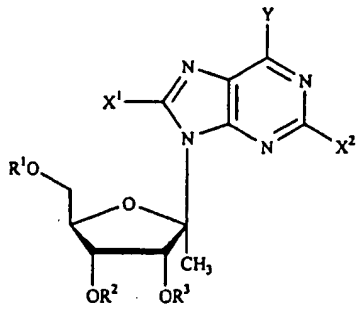
R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-amino acid
CF_3	H	OH	S	Thymine	Cl	O-acyl
CF_3	H	OH	S	Uracil	Cl	O-acyl
CF_3	H	OH	S	Guanine	Cl	O-acyl
CF_3	H	OH	S	Cytosine	Cl	O-acyl
CF_3	H	OH	S	Adenine	Cl	O-acyl
CF_3	H	OH	S	Hypoxanthine	Cl	O-acyl
CF_3	H	OH	S	5-Fluorouracil	Cl	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	Cl	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	Cl	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-Aminoadenine	Cl	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	Cl	O-acyl
CF_3	H	OH	S	4-N-acetylcytosine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	Cl	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	Cl	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	Cl	O-acyl
CF_3	H	OH	S	Thymine	H	O-amino acid
CF_3	H	OH	S	Uracil	H	O-amino acid
CF_3	H	OH	S	Guanine	H	O-amino acid
CF_3	H	OH	S	Cytosine	H	O-amino acid
CF_3	H	OH	S	Adenine	H	O-amino acid

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	Hypoxanthine	H	O-amino acid
CF_3	H	OH	S	5-Fluorouracil	H	O-amino acid
CF_3	H	OH	S	8-Fluoroguanine	H	O-amino acid
CF_3	H	OH	S	5-Fluorocytosine	H	O-amino acid
CF_3	H	OH	S	8-Fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2,8-Difluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	8-Fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-Aminoadenine	H	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-Aminohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylguanine	H	O-amino acid
CF_3	H	OH	S	4-N-acetylcytosine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyladenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-amino acid
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-amino acid
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylaminoadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-amino acid
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-amino acid
CF_3	H	OH	S	Thymine	H	O-acyl
CF_3	H	OH	S	Uracil	H	O-acyl
CF_3	H	OH	S	Guanine	H	O-acyl
CF_3	H	OH	S	Cytosine	H	O-acyl
CF_3	H	OH	S	Adenine	H	O-acyl
CF_3	H	OH	S	Hypoxanthine	H	O-acyl
CF_3	H	OH	S	5-Fluorouracil	H	O-acyl
CF_3	H	OH	S	8-Fluoroguanine	H	O-acyl
CF_3	H	OH	S	5-Fluorocytosine	H	O-acyl
CF_3	H	OH	S	8-Fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Fluoroadenine	H	O-acyl
CF_3	H	OH	S	2,8-Difluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	8-Fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2,8-Difluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-Aminoadenine	H	O-acyl
CF_3	H	OH	S	2-Amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-Amino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-Aminohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-N-acetylguanine	H	O-acyl

R^6	R^7	R^8	X	Base	R^{10}	R^9
CF_3	H	OH	S	4-N-acetylcytosine	H	O-acyl
CF_3	H	OH	S	6-N-acetyladenine	H	O-acyl
CF_3	H	OH	S	2-N-acetyl-8-fluoroguanine	H	O-acyl
CF_3	H	OH	S	4-N-acetyl-5-fluorocytosine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-fluoroadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2,8-difluoroadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-aminoadenine	H	O-acyl
CF_3	H	OH	S	6-N-acetyl-2-amino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylaminoadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluoroadenine	H	O-acyl
CF_3	H	OH	S	2-N-acetylamino-8-fluorohypoxanthine	H	O-acyl
CF_3	H	OH	S	2-N-acetylaminohypoxanthine	H	O-acyl

We claim.

1. A compound of Formula (I), or a pharmaceutically acceptable salt thereof, of the formula:



(I)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

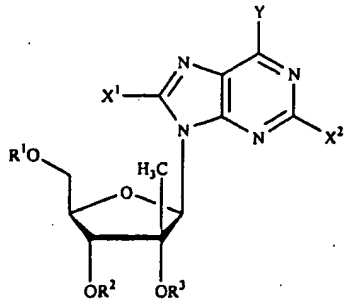
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OH, OR^4, NH, NHR^5, NR^4R^5, SH and SR^4; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

2. A compound of Formula II, or a pharmaceutically acceptable salt of the formula:



(II)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

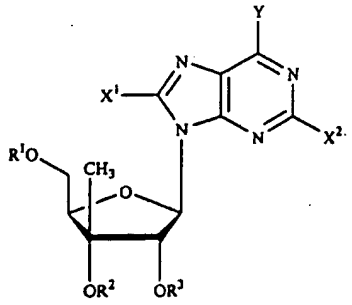
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

3. A compound of Formula III, or a pharmaceutically acceptable salt thereof:



(III)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

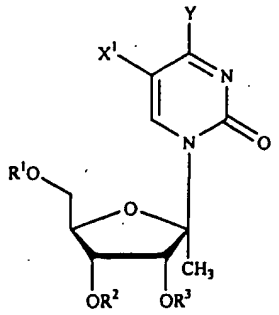
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 and X^2 are independently selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

4. A compound of Formula IV, or a pharmaceutically acceptable salt or prodrug thereof:



(IV)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

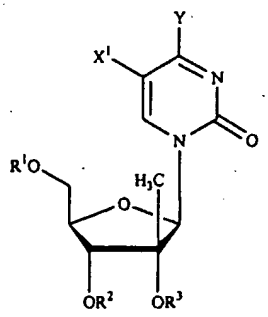
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

5. A compound of Formula V, or a pharmaceutically acceptable salt or prodrug thereof:



(V)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

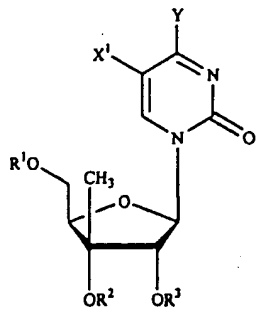
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl, or alkyl.

6. A compound of Formula VI or a pharmaceutically acceptable salt or prodrug thereof:



(VI)

wherein:

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

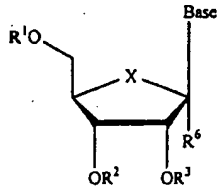
wherein at least one of R^2 and R^3 is not hydrogen;

Y is hydrogen, bromo, chloro, fluoro, iodo, OR^4, NR^4R^5 or SR^4;

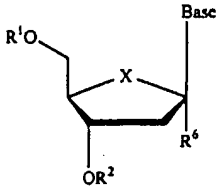
X^1 is selected from the group consisting of H, straight chained, branched or cyclic alkyl, CO-alkyl, CO-aryl, CO-alkoxyalkyl, chloro, bromo, fluoro, iodo, OR^4, NR^4NR^5 or SR^5; and

R^4 and R^5 are independently hydrogen, acyl (including lower acyl), or alkyl (including but not limited to methyl, ethyl, propyl and cyclopropyl).

7. A compound selected from Formulas VII and VIII, or a pharmaceutically acceptable salt or prodrug thereof:



(VII)



(VIII)

wherein:

Base is a purine or pyrimidine base;

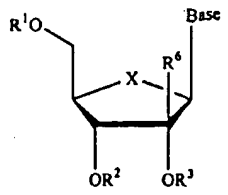
R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

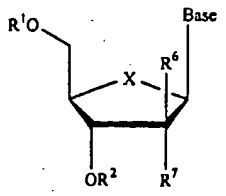
R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

8. A compound of Formulas IX and X, or a pharmaceutically acceptable salt:



(IX)



(X)

wherein:

Base is a purine or pyrimidine base;

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically

acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

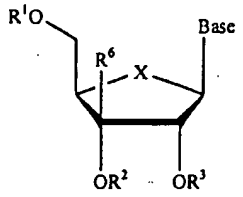
wherein R^2 is not hydrogen;

R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

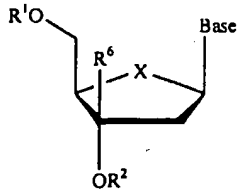
R^7 is hydrogen, OR^3, hydroxy, alkyl, azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

9. A compound selected from Formulas XI and XII, or a pharmaceutically acceptable salt thereof:



(XI)



(XII)

wherein:

Base is a purine or pyrimidine base;

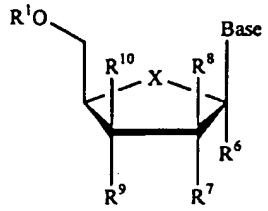
R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

wherein R^2 is not hydrogen;

R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$; and

X is O, S, SO_2 or CH_2.

10. A compound of Formula XIII, or a pharmaceutically acceptable salt thereof:



(XIII)

wherein:

Base is a purine or pyrimidine base;

R^1, R^2 and R^3 are independently H, phosphate or a stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl; CO-aryl; CO-alkoxyalkyl; CO-aryloxyalkyl; CO-substituted aryl; sulfonate ester; benzyl, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl; arylsulfonyl; aralkylsulfonyl; a lipid; an amino acid; an amino acid residue; a carbohydrate; a peptide; cholesterol; or a pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^1, R^2 and/or R^3 is independently H or phosphate;

R^6 is alkyl, CH_3, CF_3, azido, cyano, alkenyl, alkynyl, Br-vinyl, 2-Br-ethyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), CF_3, chloro, bromo, fluoro, iodo, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

R^7 and R^9 are independently hydrogen, OR^2, hydroxy, alkyl, azido, cyano, alkenyl, alkynyl, Br-vinyl, -C(O)O(alkyl), -C(O)O(lower alkyl), -O(acyl), -O(lower acyl), -O(alkyl), -O(lower alkyl), -O(alkenyl), chlorine, bromine, iodine, NO_2, NH_2, -NH(lower alkyl), -NH(acyl), -N(lower alkyl)$_2$, -N(acyl)$_2$;

wherein at least one of R^7 and R^9 is OR^2, wherein each R^2 is independently phosphate or stabilized phosphate; straight chained, branched or cyclic alkyl; acyl; CO-alkyl, CO-aryl, CO-alkoxyalkyl, CO-aryloxyalkyl, CO-substituted aryl, sulfonate ester, wherein the phenyl group is optionally substituted with one or more substituents; alkylsulfonyl, arylsulfonyl, aralkylsulfonyl, a lipid; an amino acid; and amino acid residue, a carbohydrate; a peptide; cholesterol; or other pharmaceutically acceptable leaving group which when administered *in vivo* is capable of providing a compound wherein R^2 is H or phosphate;

R^8 and R^{10} are independently H, alkyl, chlorine, bromine or iodine;

alternatively, R^7 and R^{10}, R^8 and R^9, or R^8 and R^{10} can come together to form a pi bond; and

X is O, S, SO_2 or CH_2.

11. A method for the treatment of a host infected with a *Flaviviridae* virus, comprising administering an effective treatment amount of a compound or a pharmaceutically acceptable salt thereof as claimed in any one of claims 1-10.

12. The method of claim 11, wherein the virus is hepatitis C.

13. The method of claim 11, wherein the compound or pharmaceutically acceptable salt thereof, is administered in combination or alternation with a second anti-viral agent.

14. The method of claim 13 wherein the second anti-viral agent is selected from the group consisting of an interferon, a ribavirin, an interleukin, a NS3 protease inhibitor, a cysteine protease inhibitor, a phenan-threnequinone, a thiazolidine derivative, a thiazolidine, a benzanilide, a phenan-threnequinone, a helicase inhibitor, a polymerase inhibitor, a nucleotide analogue, a gliotoxin, a cerulenin, an antisense phosphorothioate oligodeoxynucleotide, an inhibitor of IRES-dependent translation, and a ribozyme.

15. The method of claim 14, wherein the second ant-viral agent is an interferon.

16. The method of claim 15, wherein the second agent is selected from the group consisting of pegylated interferon alpha 2a, interferon alphacon-1, natural interferon,

albuferon, interferon beta-1a, omega interferon, interferon alpha, interferon gamma, interferon tau, interferon delta and interferon gamma-1b.

17. The method of claim 11, wherein the compound or pharmaceutically acceptable salt thereof, is in the form of a dosage unit.

18. The method of claim 17, wherein the dosage unit contains 50 to 1000 mg or 0.1 to 50 mg of the compound.

19. The method of claim 17, wherein the dosage unit is a tablet or capsule.

20. The method of claim 11, wherein the host is a human.

21. The method of claim 11, wherein the wherein the compound or pharmaceutically acceptable salt thereof, is in substantially pure form.

22. The method of claim 11, wherein the compound or stereoisomeric or tautomeric form thereof, or pharmaceutically acceptable salt thereof, is at least 90% by weight of the β-D-isomer.

23. The method of claim 11, wherein the compound or stereoisomeric or tautomeric form thereof, or pharmaceutically acceptable salt thereof, is at least 95% by weight of the β-D-isomer.

24. The method of claim 11, wherein the compound is in the form of a pharmaceutically acceptable salt selected from the group consisting of a tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorate, α-ketoglutarate, α-glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicylate, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate, hydrochloride, di-hydrochloride, and phosphoric acid salt.

25. The method of claim 24, wherein the pharmaceutically acceptable salt is a hydrochloride salt.

26. A pharmaceutical composition comprising a compound of any of claims 1 to 10, or a pharmaceutically acceptable salt thereof.

27. The pharmaceutical composition of claim 26, further comprising a pharmaceutically acceptable carrier, diluent or excipient.

28. The pharmaceutical composition of claim 26 comprising an effective amount of the compound or a pharmaceutically acceptable salt thereof, for the treatment of a host infected with a *Flaviviridae* virus.

29. The composition of claim 28, wherein the *Flaviviridae* virus is hepatitis C.

30. The pharmaceutical composition of claim 26, wherein the compound or a pharmaceutically acceptable salt thereof, is in the form of a dosage unit.

31. The composition of claim 30, wherein the dosage unit contains 50 to 1000 mg or 0.1 to 50 mg of the compound.

32. The composition of claim 30, wherein said dosage unit is a tablet or capsule.

33. The pharmaceutical composition of claim 26, further comprising a second anti-viral agent.

34. The pharmaceutical composition of claim 33, wherein the second anti-viral agent is selected from the group consisting of an interferon, a ribavirin, an interleukin, a NS3 protease inhibitor, a cysteine protease inhibitor, a phenan-threnequinone, a thiazolidine derivative, a thiazolidine, a benzanilide, a phenan-threnequinone, a helicase inhibitor, a polymerase inhibitor, a nucleotide analogue, a gliotoxin, a cerulenin, an antisense phosphorothioate oligodeoxynucleotide, an inhibitor of IRES-dependent translation, and a ribozyme.

35. The pharmaceutical composition of claim 34, wherein the second anti-viral agent is an interferon.

36. The pharmaceutical composition of claim 35, wherein the second agent is selected from the group consisting of pegylated interferon alpha 2a, interferon alphacon-1, natural interferon, albuferon, interferon beta-1a, omega interferon, interferon alpha, interferon gamma, interferon tau, interferon delta and interferon gamma- 1b.

37. The pharmaceutical composition of claim 26, or pharmaceutically acceptable salt thereof, is in substantially pure form.

38. The pharmaceutical composition of claim 26, wherein the compound or pharmaceutically acceptable salt thereof; is at least 90% by weight of the β-D-isomer.

39. The pharmaceutical composition of claim 26, wherein the compound or pharmaceutically acceptable salt thereof; is at least 95% by weight of the β-D-isomer.

40. The pharmaceutical composition of claim 26, further comprising a pharmaceutically acceptable carrier suitable for oral, parenteral, inhalant or intravenous delivery.

41. The pharmaceutical composition of claim 26, wherein the compound is in the form of a pharmaceutically acceptable salt selected from the group consisting of a tosylate, methanesulfonate, acetate, citrate, malonate, tartarate, succinate, benzoate, ascorate, α-ketoglutarate, α-glycerophosphate, formate, fumarate, propionate, glycolate, lactate, pyruvate, oxalate, maleate, salicylate, sulfate, nitrate, bicarbonate, carbonate salts, hydrobromate, a hydrochloride, a di-hydrochloride, and phosphoric acid salt.

42. The pharmaceutical composition of claim 41, wherein the pharmaceutically acceptable salt is a hydrochloride salt.

43. A compound or a pharmaceutically acceptable salt thereof, of any of claims 1 to 10, for use in the treatment of a host infected with a *Flaviviridae* virus.

44. The compound of claim 43, wherein the virus is hepatitis C.

45. The compound of claim 43, wherein the host is a human.

46. The use of a compound or a pharmaceutically acceptable salt thereof, of any of claims 1 to 10 in the manufacture of a medicament for the treatment of a host infected with a *Flaviviridae* virus.

47. The use of claim 46, wherein the virus is hepatitis C.

48. The use of claim 46, wherein the host is a human.

Figure 1: Chemical Structures of Illustrative Nucleosides

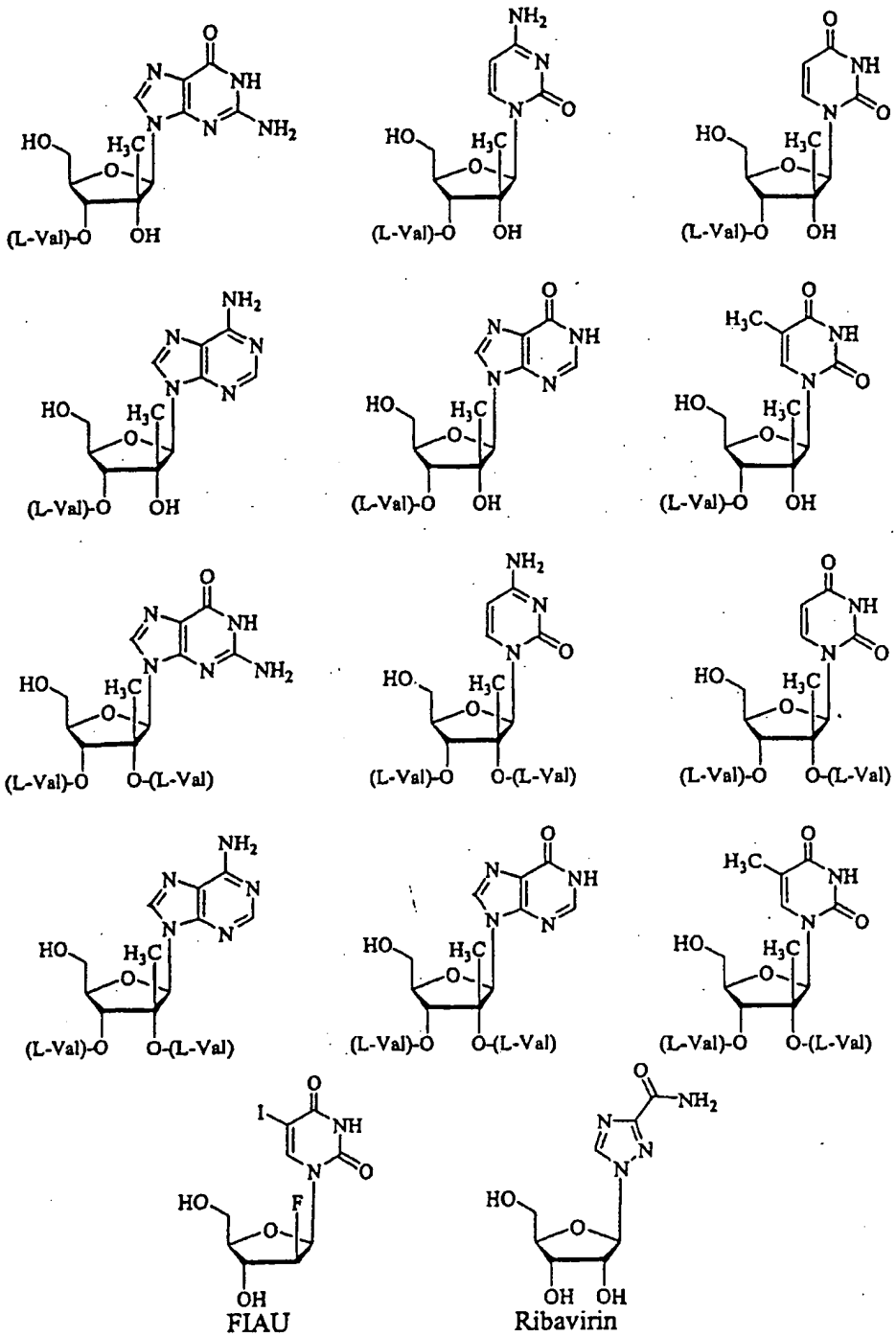


Figure 2

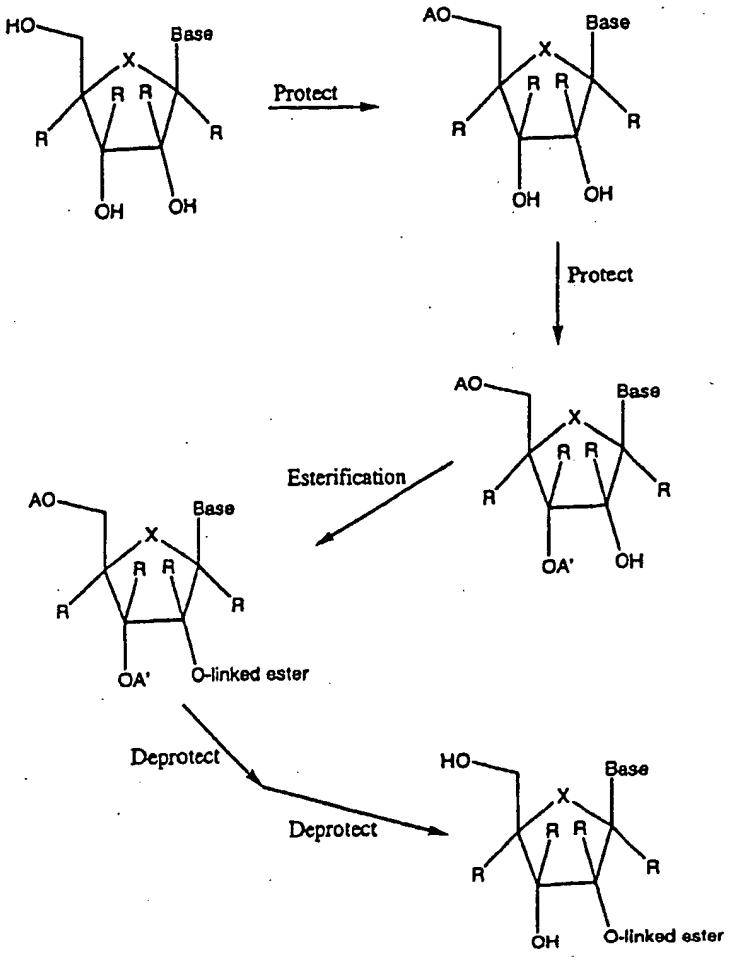

HO
Base
X
R
R
R
R
OH
OH
Protect
AO
Base
X
R
R
R
R
OH
OH
Protect
AO
Base
X
R
R
R
R
OA'
OH
Esterification
AO
Base
X
R
R
R
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OA'
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Deprotect
Deprotect
HO
Base
X
R
R
R
R
OH
O-linked ester

Figure 3

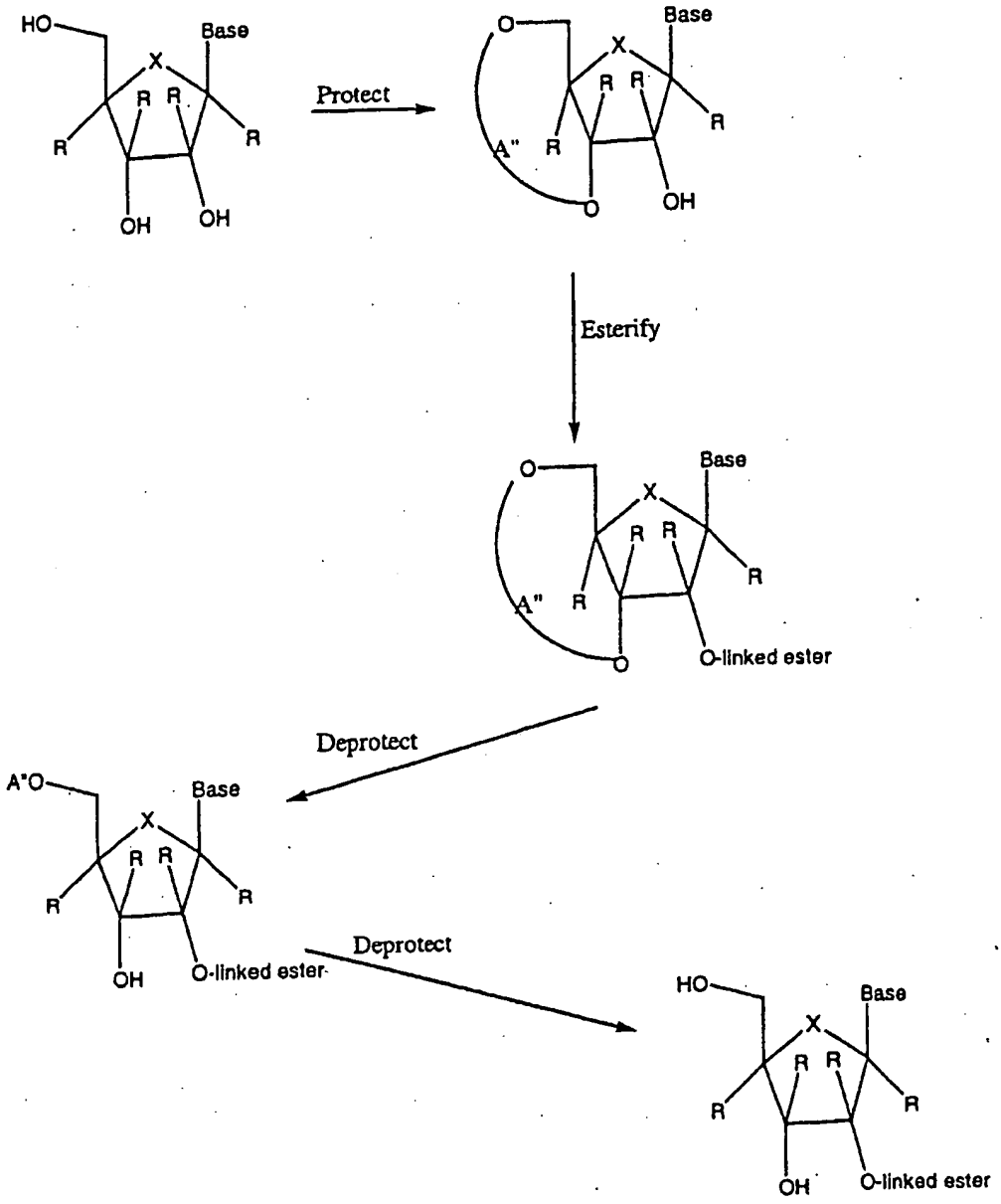

HO
Base
X
R
R
R
R
OH
OH
Protect
O
Base
X
R
R
R
A"
R
O
OH
Esterify
O
Base
X
R
R
R
A"
R
O
O-linked ester
Deprotect
A"O
Base
X
R
R
R
R
OH
O-linked ester
Deprotect
HO
Base
X
R
R
R
R
OH
O-linked ester

Figure 4

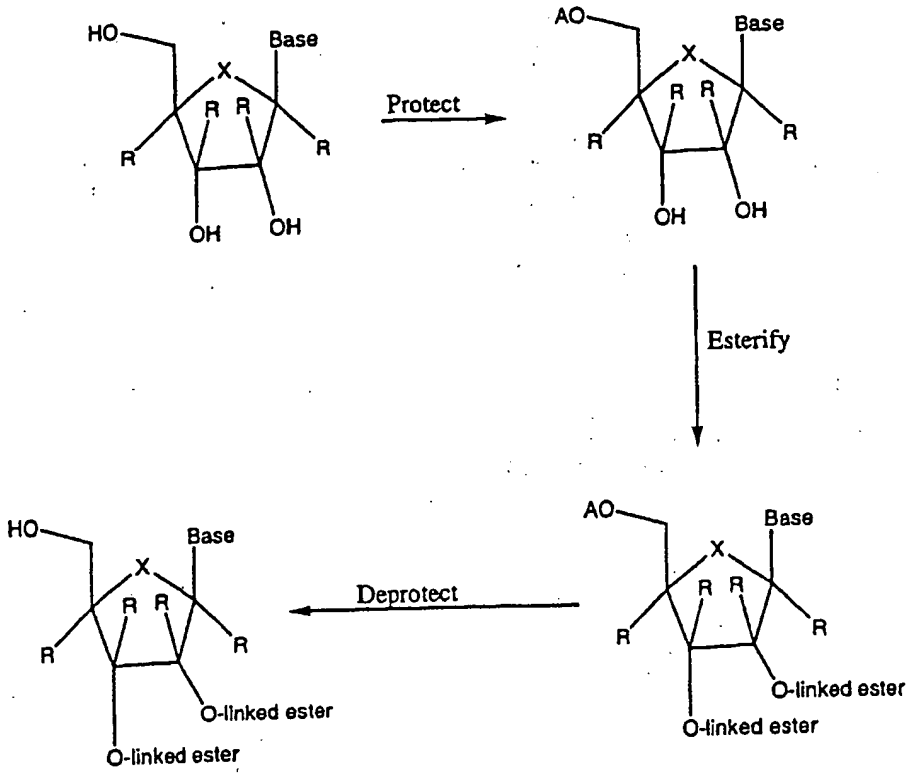
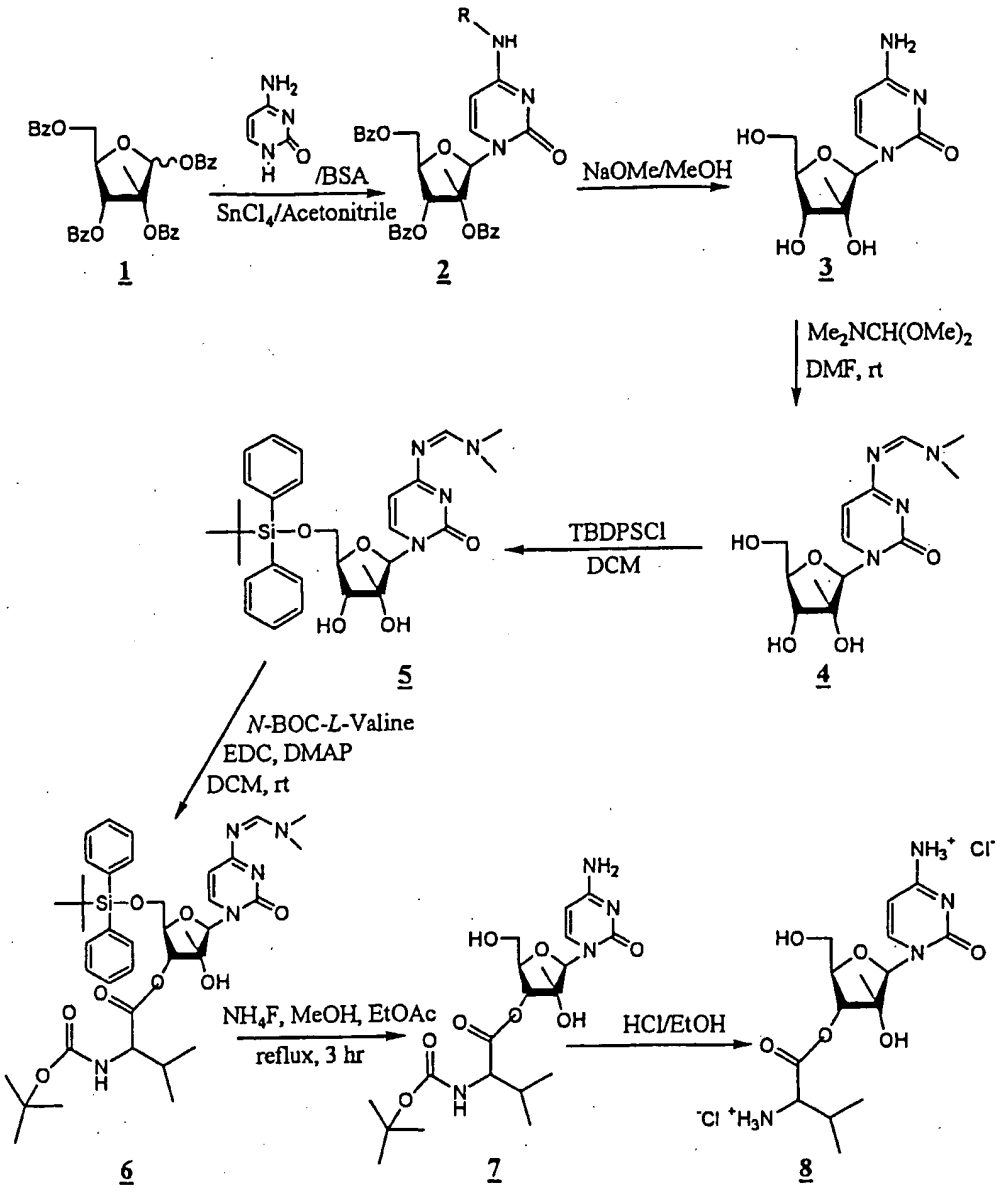
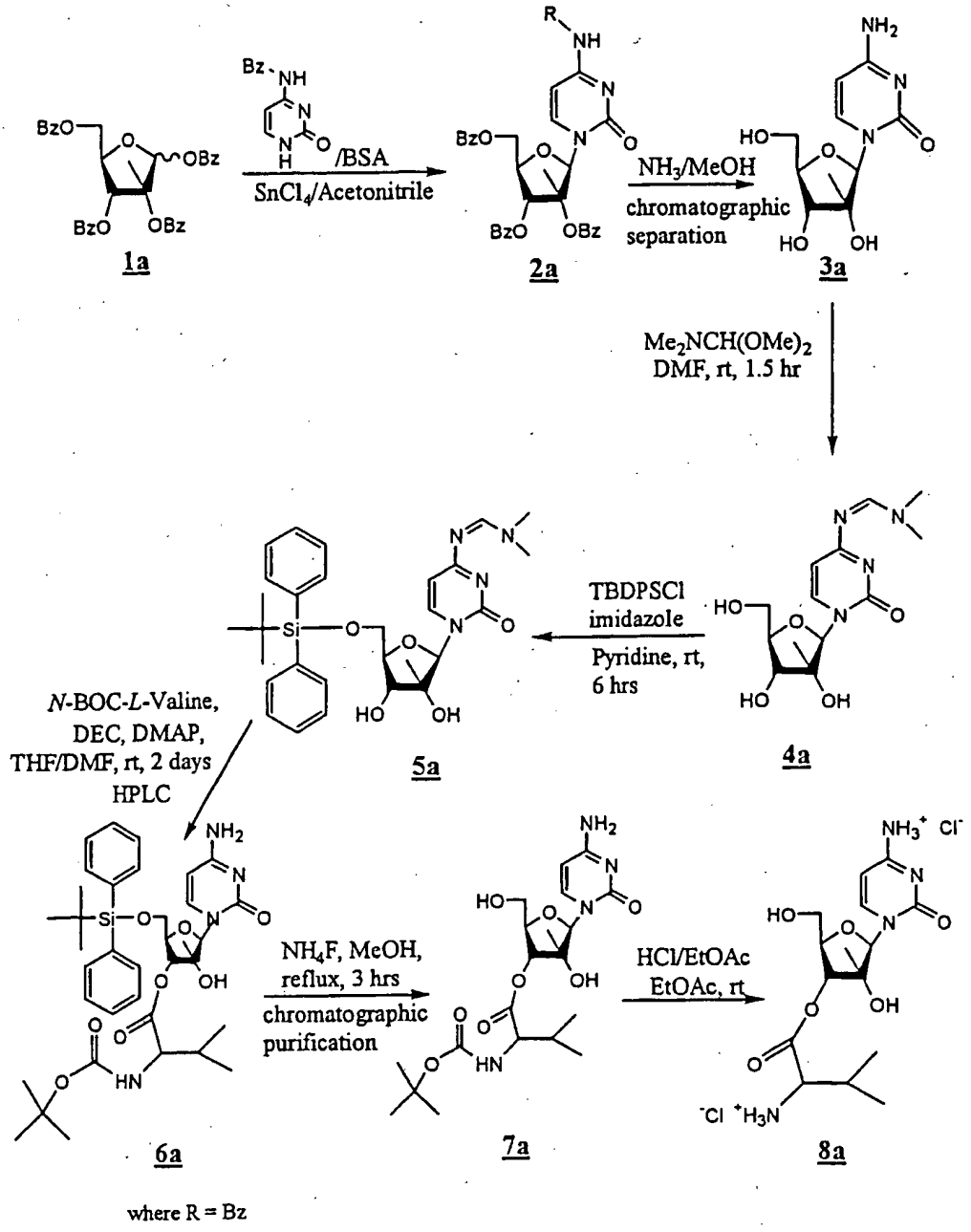

HO
Base
X
R
R
R
R
OH
OH
Protect
AO
Base
X
R
R
R
R
OH
OH
Esterify
AO
Base
X
R
R
R
R
O-linked ester
O-linked ester
Deprotect
HO
Base
X
R
R
R
R
O-linked ester
O-linked ester

Figure 5



where: R = H

Figure 6



where R = Bz

Figure 7

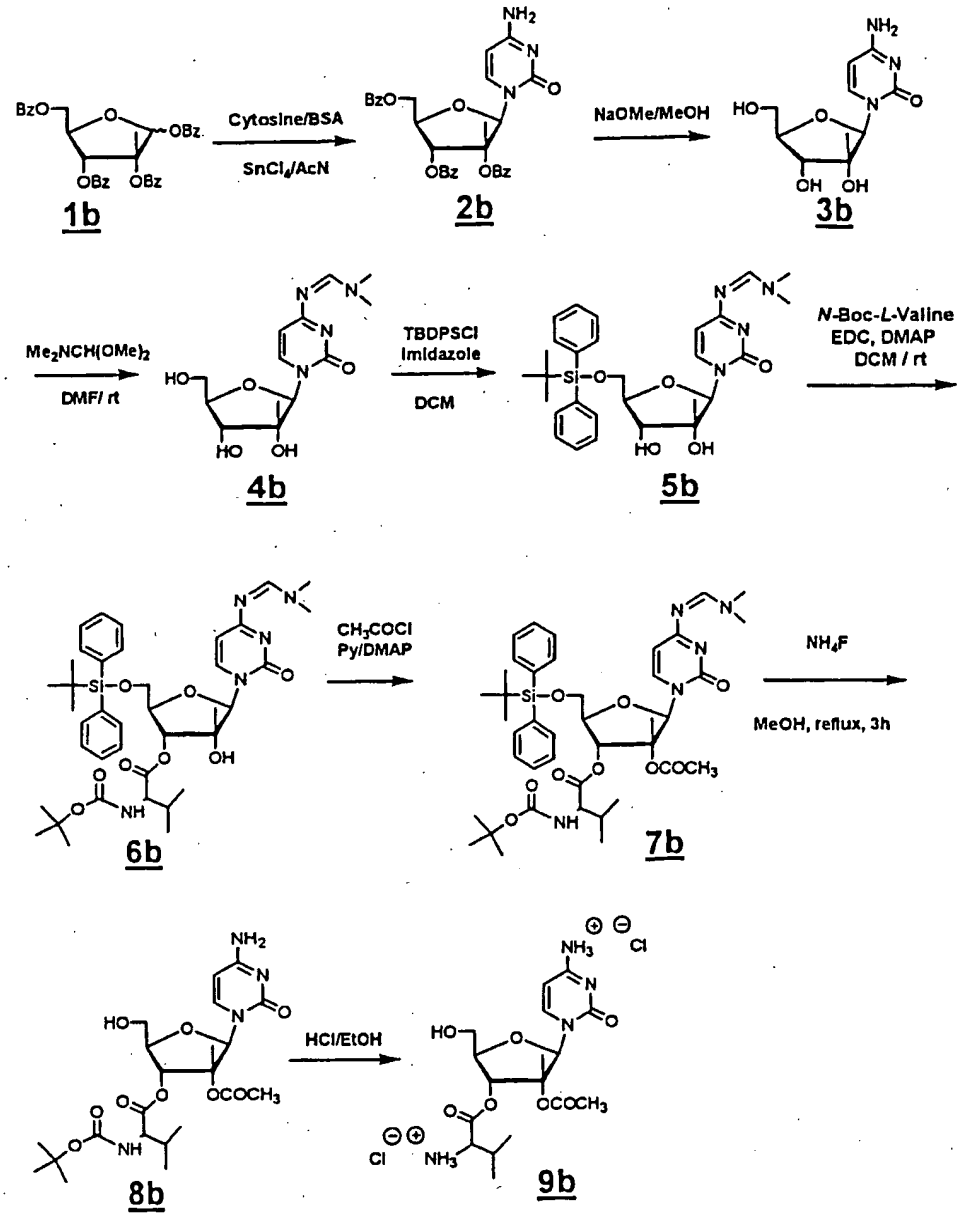

Cytosine/BSA
SnCl4/AcN
NaOMe/MeOH
1b
2b
3b
Me2NCH(OMe)2
DMF/ rt
TBDPSCl
Imidazole
DCM
N-Boc-L-Valine
EDC, DMAP
DCM / rt
4b
5b
CH3COCl
Py/DMAP
NH4F
MeOH, reflux, 3h
6b
7b
HCl/EtOH
8b
9b

Figure 8

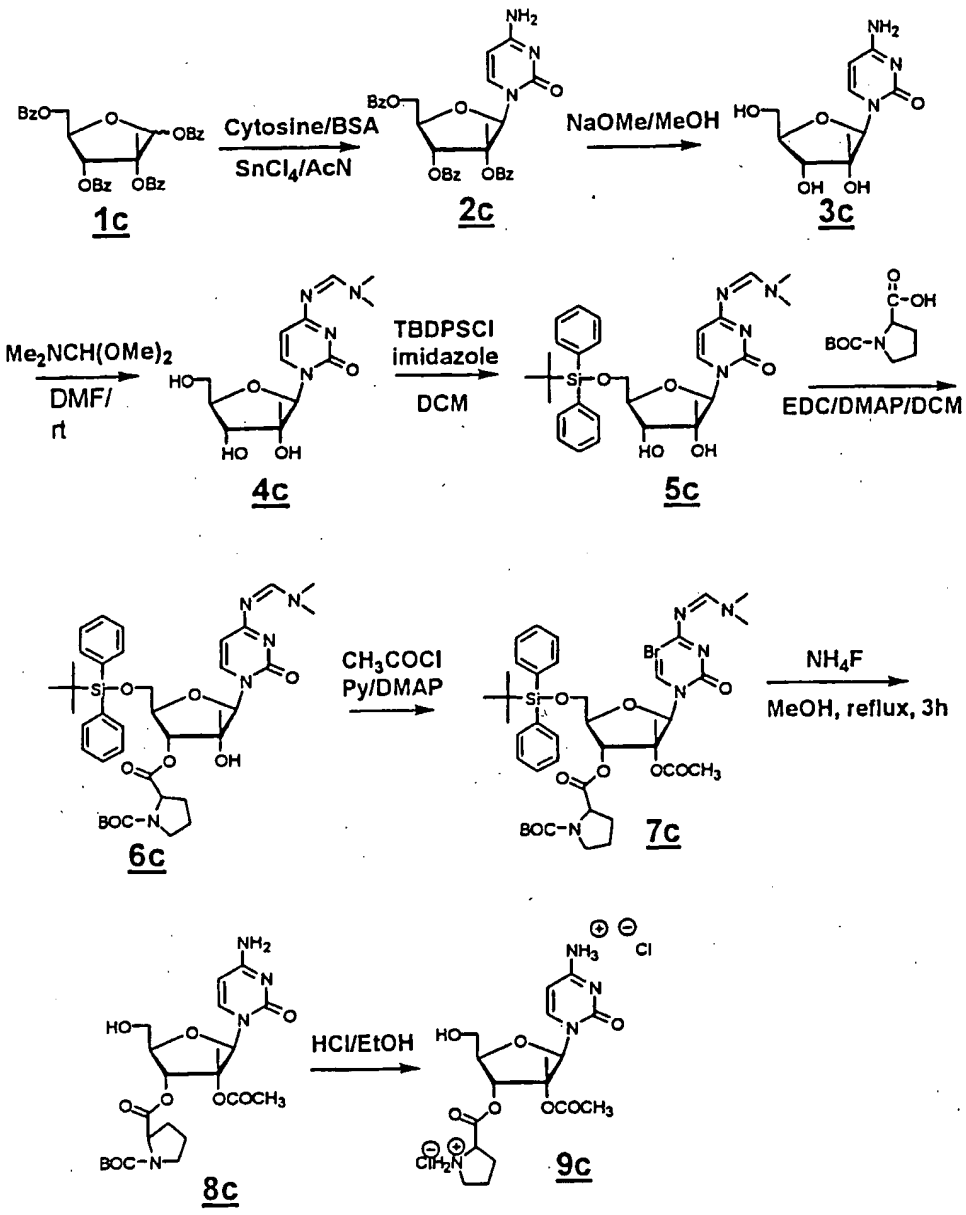

Cytosine/BSA
SnCl4/AcN
NaOMe/MeOH
1c
2c
3c
Me2NCH(OMe)2
DMF/
rt
TBDPSCl
imidazole
DCM
EDC/DMAP/DCM
4c
5c
CH3COCl
Py/DMAP
NH4F
MeOH, reflux, 3h
6c
7c
HCl/EtOH
8c
9c

Figure 9

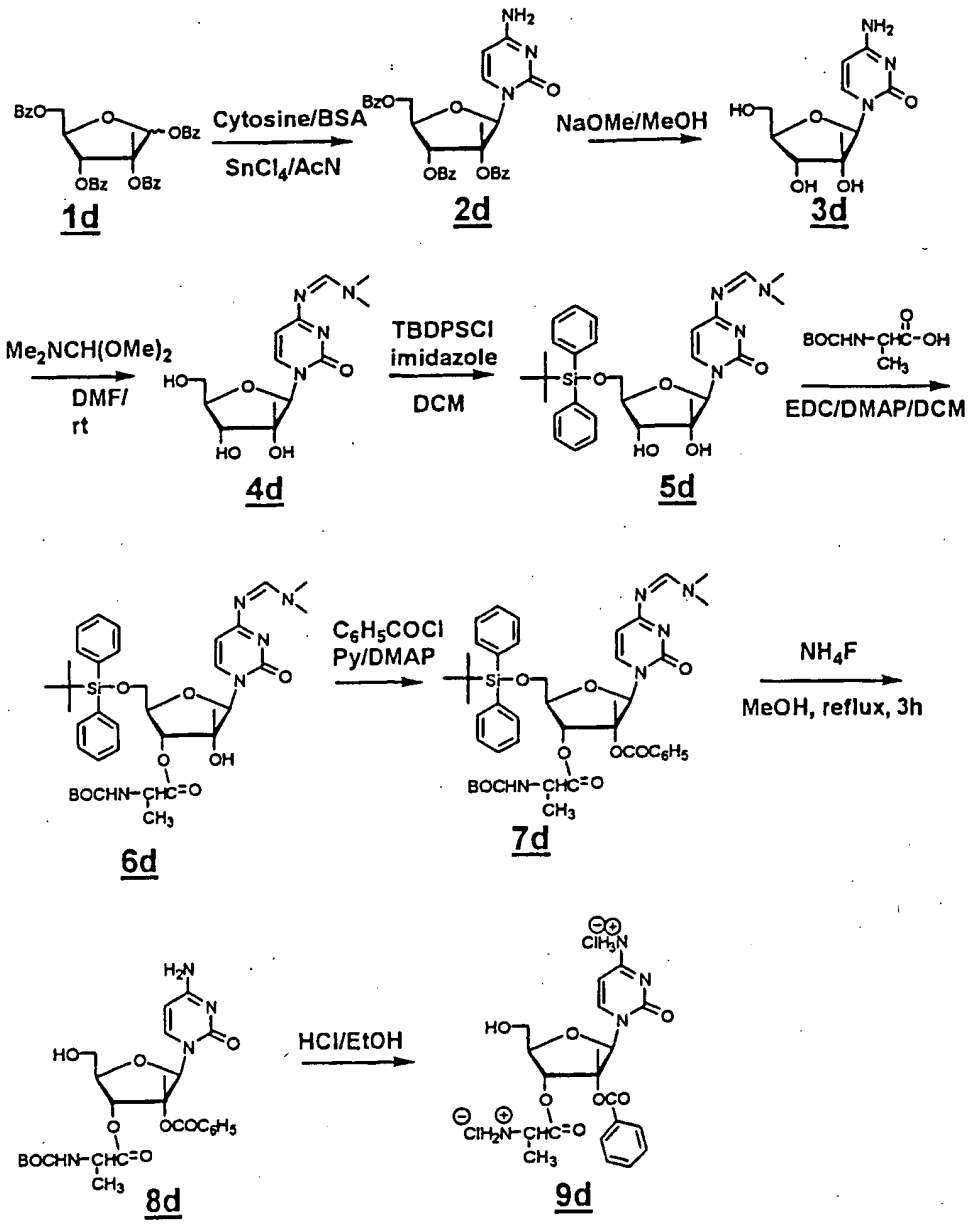

Cytosine/BSA
SnCl4/AcN
NaOMe/MeOH
1d
2d
3d
Me2NCH(OMe)2
DMF/
rt
TBDPSCl
imidazole
DCM
EDC/DMAP/DCM
4d
5d
C6H5COCl
Py/DMAP
NH4F
MeOH, reflux, 3h
6d
7d
HCl/EtOH
8d
9d

Figure 10

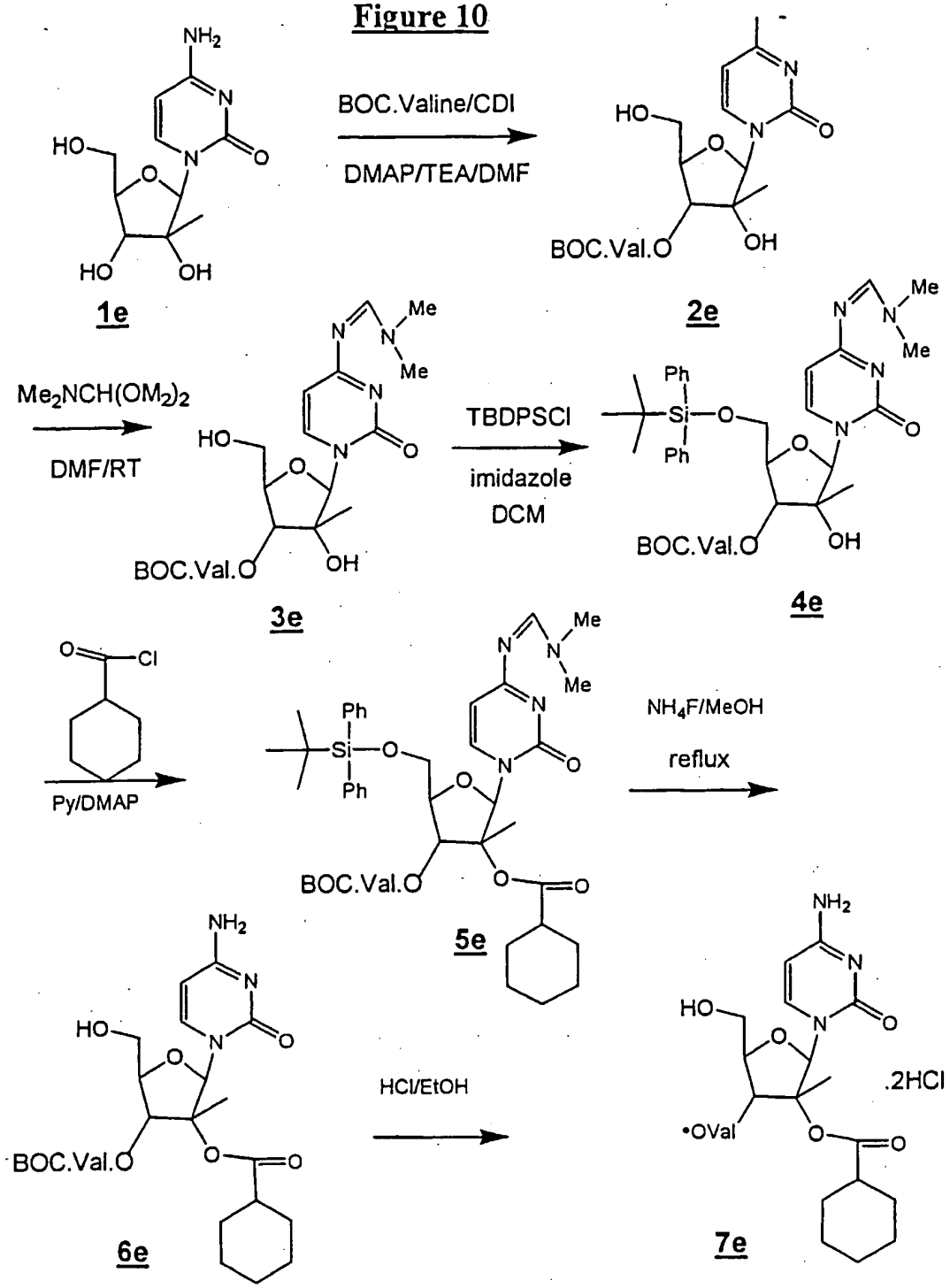

BOC.Valine/CDI
DMAP/TEA/DMF
1e
2e
Me2NCH(OM2)2
DMF/RT
3e
TBDPSCl
imidazole
DCM
4e
Py/DMAP
5e
NH4F/MeOH
reflux
HCl/EtOH
6e
7e
.2HCl

Figure 11

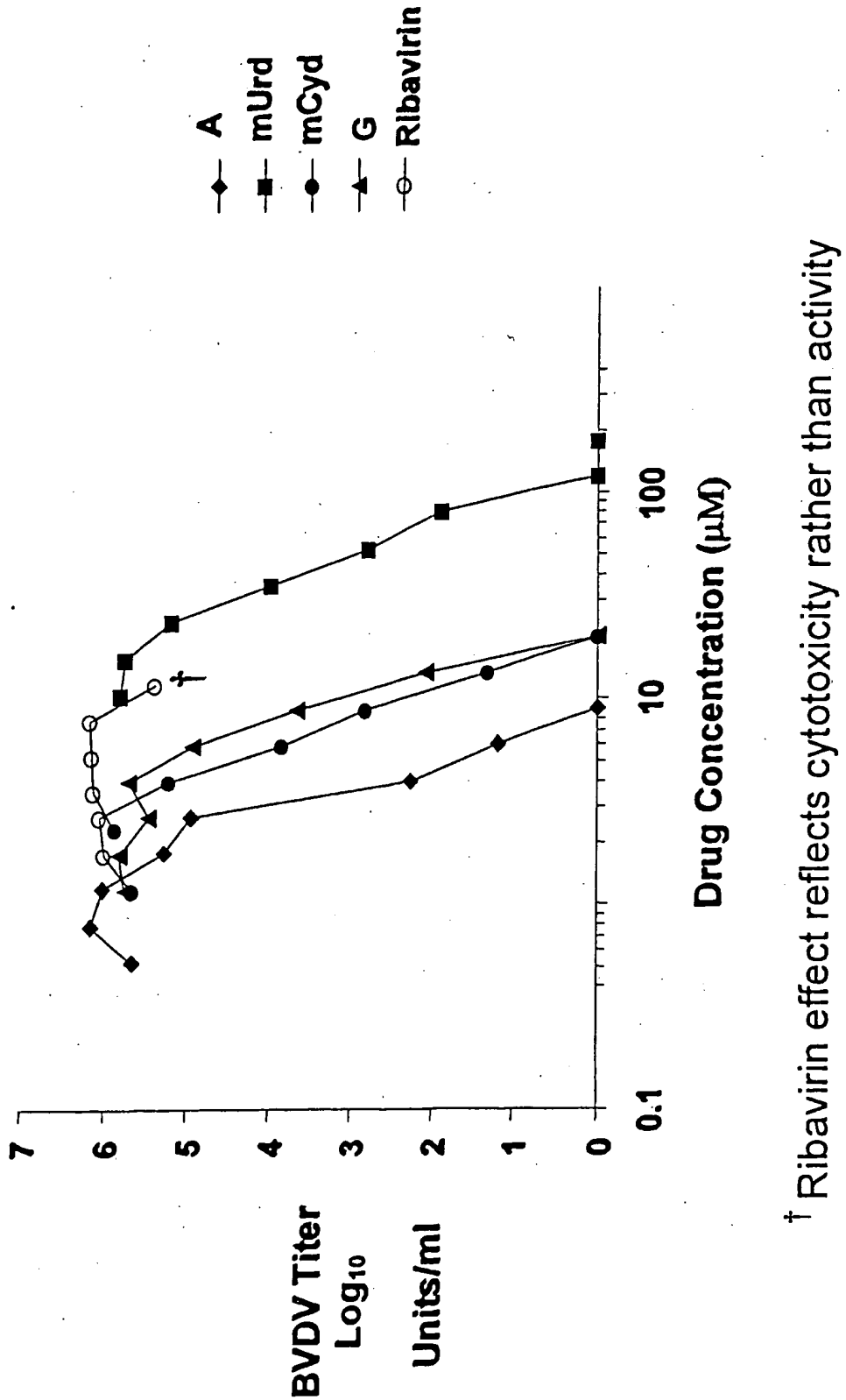
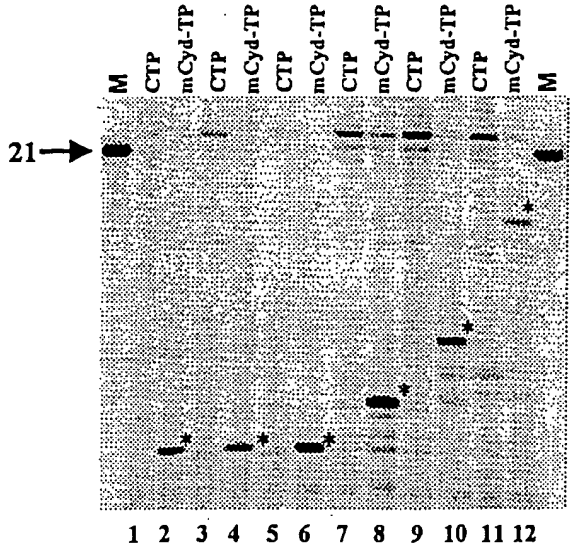

A
mUrd
mCyd
G
Ribavirin
BVDV Titer
Log10
Units/ml
7
6
5
4
3
2
1
0
0.1
10
100
Drug Concentration (μM)
† Ribavirin effect reflects cytotoxicity rather than activity

Figure 12



Lane #	template	→
1-2	(-21)	3' CAUAUGCUCUUAAUCUUUUCC
3-4	(-21)-7G	3' CAUAUGGUCUUAAUCUUUUCC
5-6	(-21)-9G	3' CAUAUGCUGUUAAUCUUUUCC
7-8	(-21)-6C/7G	3' CAUAUCGUCUUAAUCUUUUCC
9-10	(-21)-6C/9G	3' CAUAUCCUGUUAAUCUUUUCC
11-12	(-21)-6C/15G	3' CAUAUCCUCUUAAUGUUUUCC

Figure 13

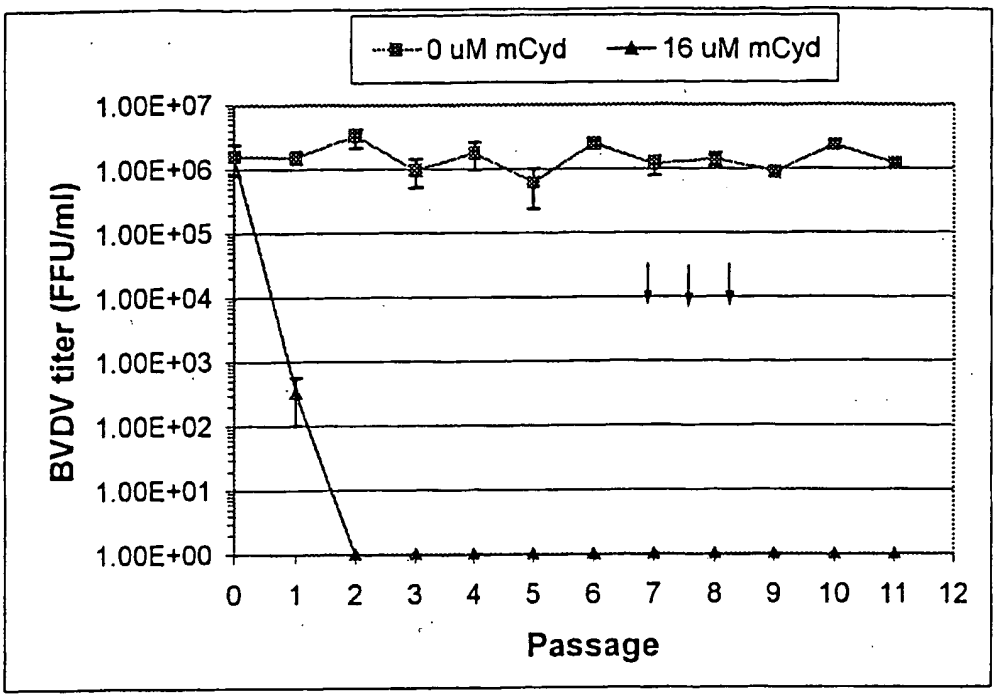

0 uM mCyd
16 uM mCyd
BVDV titer (FFU/ml)
1.00E+07
1.00E+06
1.00E+05
1.00E+04
1.00E+03
1.00E+02
1.00E+01
1.00E+00
0 1 2 3 4 5 6 7 8 9 10 11 12
Passage

Figure 14

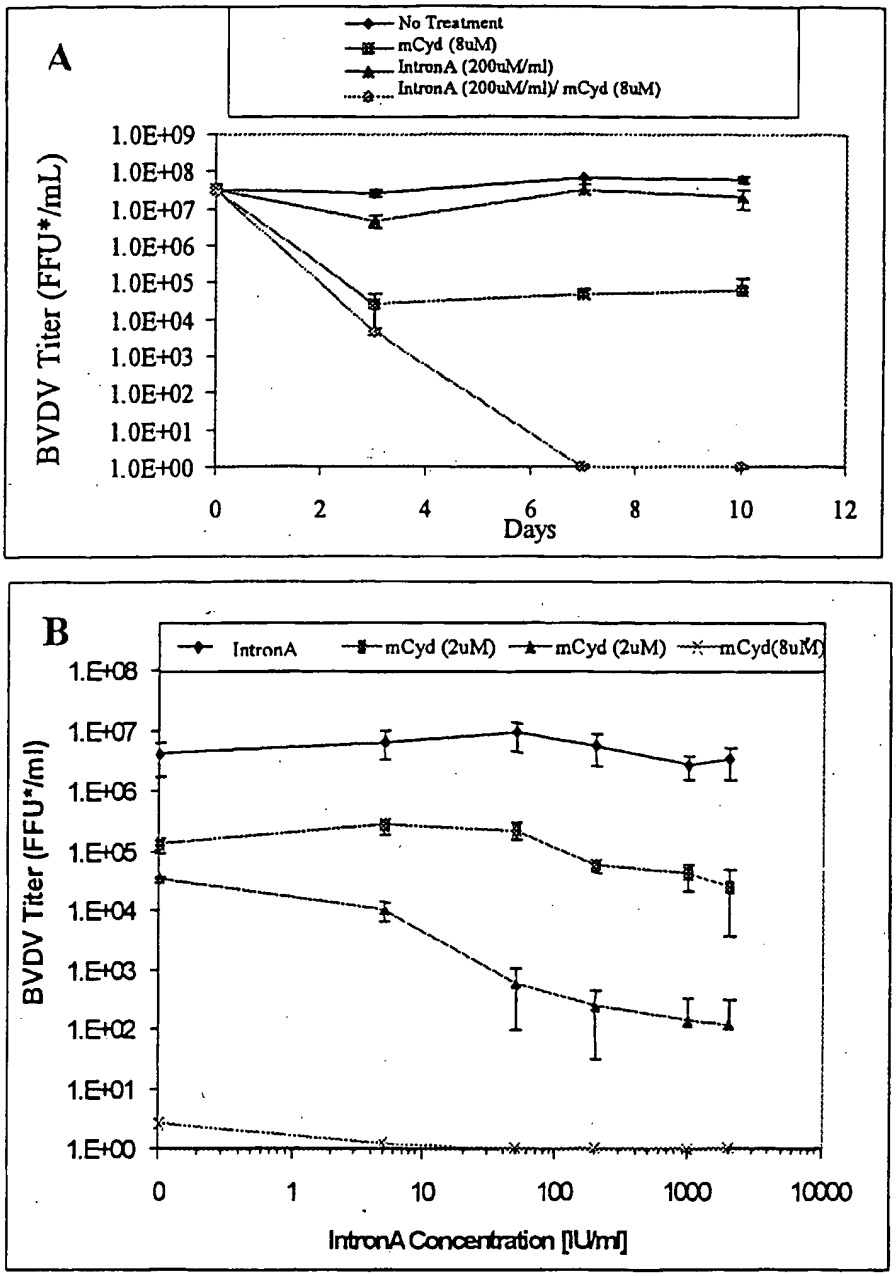

A
No Treatment
mCyd (8uM)
IntronA (200uM/ml)
IntronA (200uM/ml)/ mCyd (8uM)
BVDV Titer (FFU*/mL)
1.0E+09
1.0E+08
1.0E+07
1.0E+06
1.0E+05
1.0E+04
1.0E+03
1.0E+02
1.0E+01
1.0E+00
0
2
4
6
8
10
12
Days
B
IntronA
mCyd (2uM)
mCyd (2uM)
mCyd(8uM)
BVDV Titer (FFU*/ml)
1.E+08
1.E+07
1.E+06
1.E+05
1.E+04
1.E+03
1.E+02
1.E+01
1.E+00
0
1
10
100
1000
10000
IntronA Concentration [IU/ml]

Figure 15

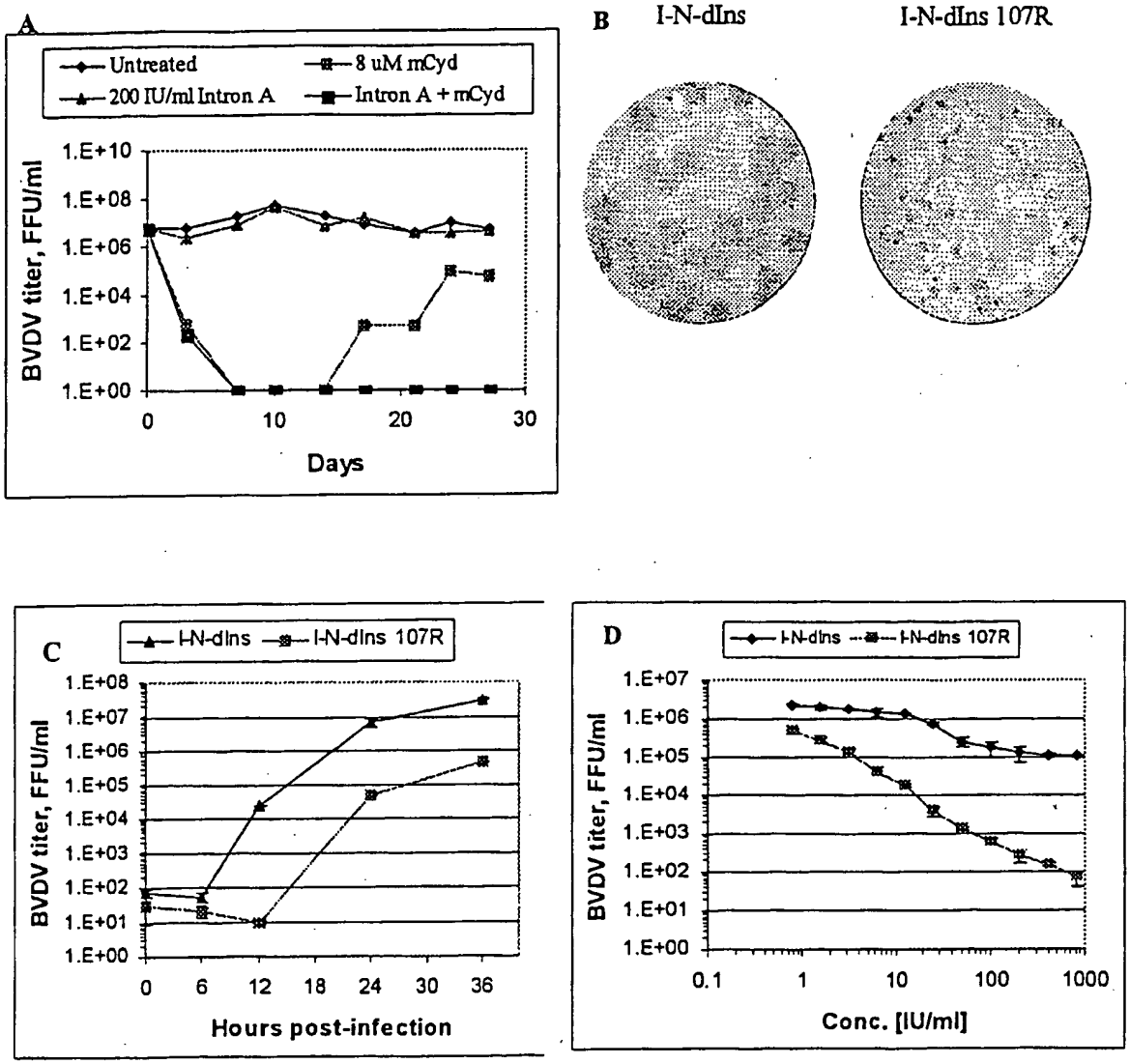

A
Untreated
8 uM mCyd
200 IU/ml Intron A
Intron A + mCyd
BVDV titer, FFU/ml
1.E+10
1.E+08
1.E+06
1.E+04
1.E+02
1.E+00
0
10
20
30
Days
B
I-N-dIns
I-N-dIns 107R
C
I-N-dIns
I-N-dIns 107R
BVDV titer, FFU/ml
1.E+08
1.E+07
1.E+06
1.E+05
1.E+04
1.E+03
1.E+02
1.E+01
1.E+00
0
6
12
18
24
30
36
Hours post-infection
D
I-N-dIns
I-N-dIns 107R
BVDV titer, FFU/ml
1.E+07
1.E+06
1.E+05
1.E+04
1.E+03
1.E+02
1.E+01
1.E+00
0.1
1
10
100
1000
Conc. [IU/ml]

Figure 16

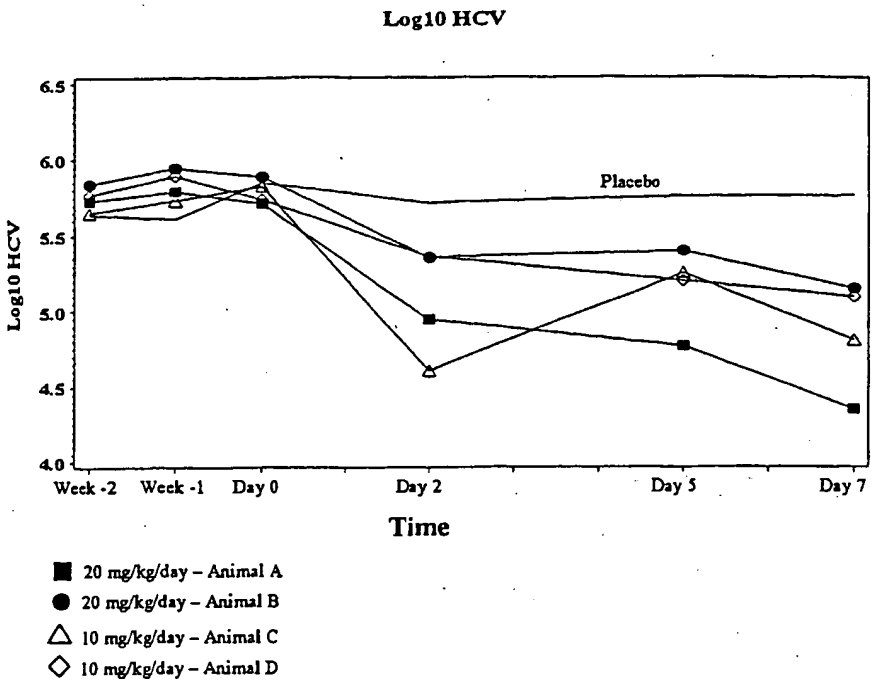

Log10 HCV
6.5
6.0
5.5
5.0
4.5
4.0
Log10 HCV
Placebo
Week -2
Week -1
Day 0
Day 2
Day 5
Day 7
Time
20 mg/kg/day – Animal A
20 mg/kg/day – Animal B
10 mg/kg/day – Animal C
10 mg/kg/day – Animal D

Figure 17

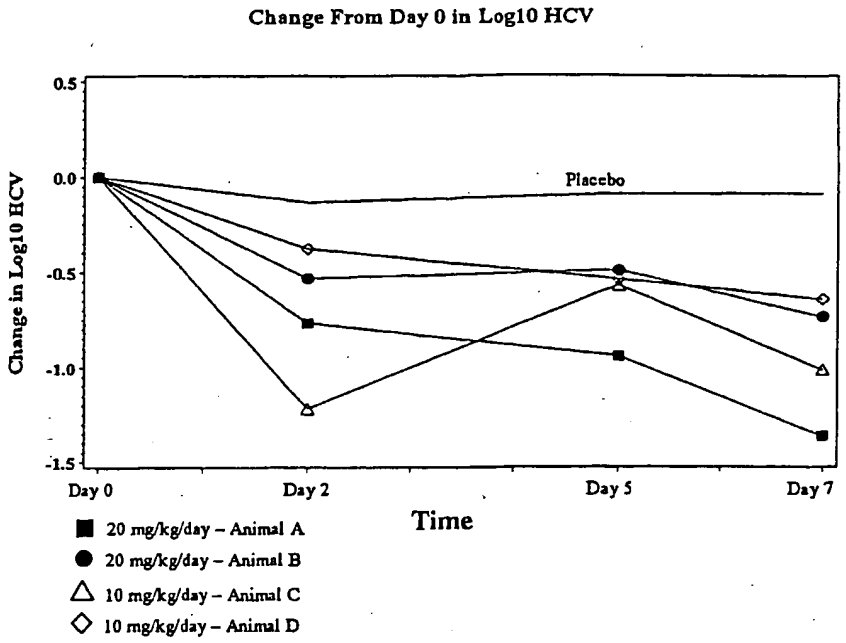

Change From Day 0 in Log10 HCV
0.5
0.0
-0.5
-1.0
-1.5
Change in Log10 HCV
Placebo
Day 0
Day 2
Day 5
Day 7
Time
20 mg/kg/day – Animal A
20 mg/kg/day – Animal B
10 mg/kg/day – Animal C
10 mg/kg/day – Animal D

Figure 18

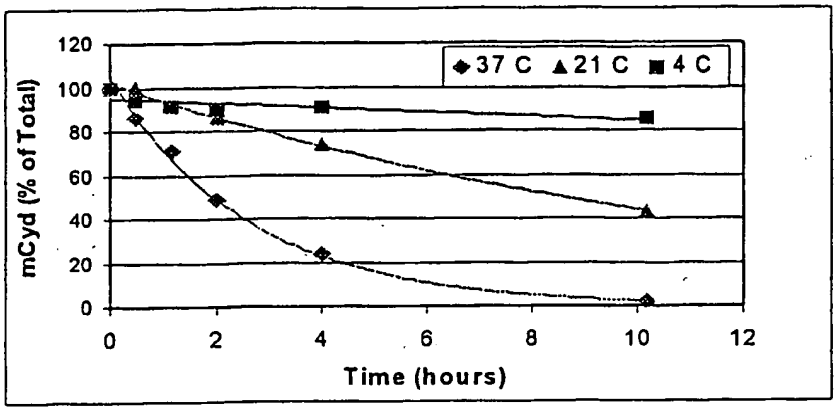

37 C
21 C
4 C
mCyd (% of Total)
120
100
80
60
40
20
0
0
2
4
6
8
10
12
Time (hours)

Figure 19

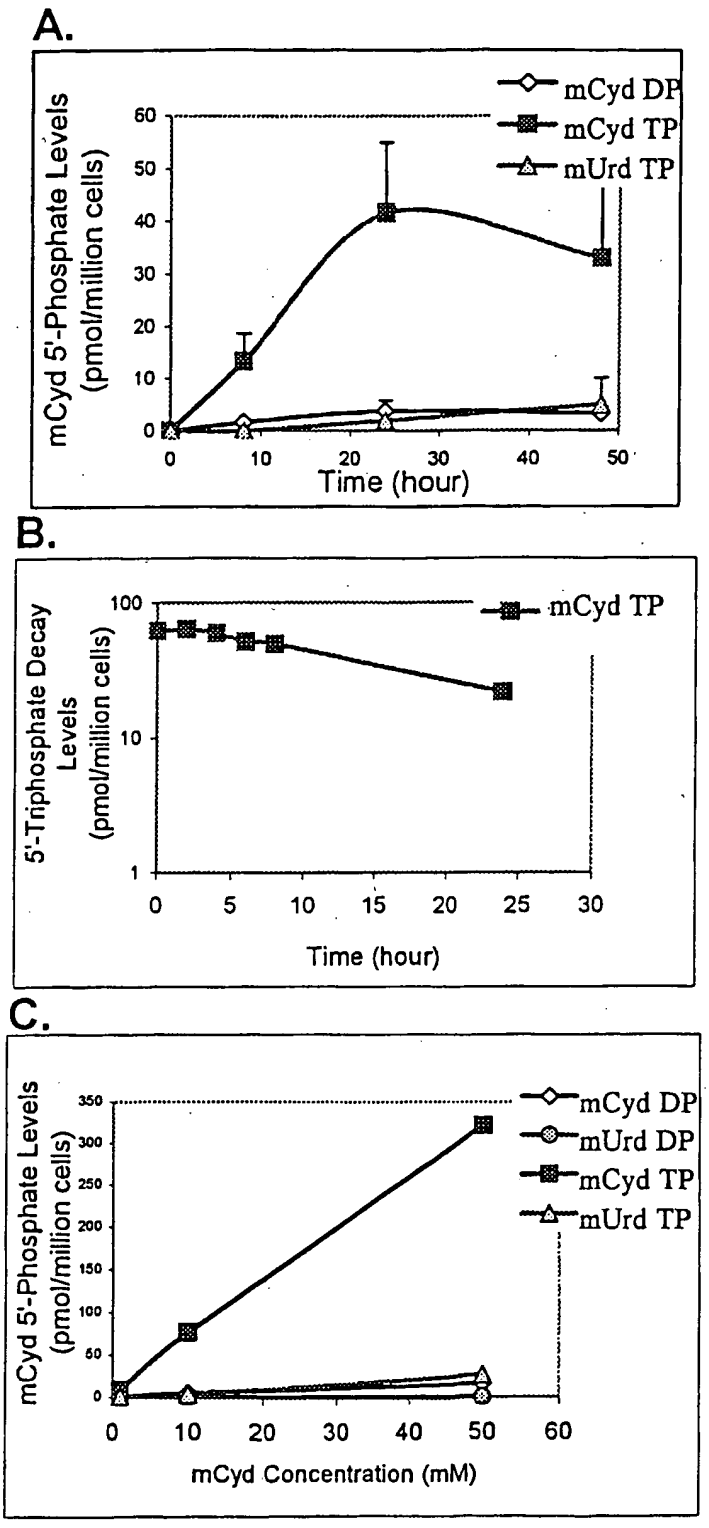

A.
mCyd 5'-Phosphate Levels (pmol/million cells)
mCyd DP
mCyd TP
mUrd TP
Time (hour)
B.
5'-Triphosphate Decay Levels (pmol/million cells)
mCyd TP
Time (hour)
C.
mCyd 5'-Phosphate Levels (pmol/million cells)
mCyd DP
mUrd DP
mCyd TP
mUrd TP
mCyd Concentration (mM)

Figure 20

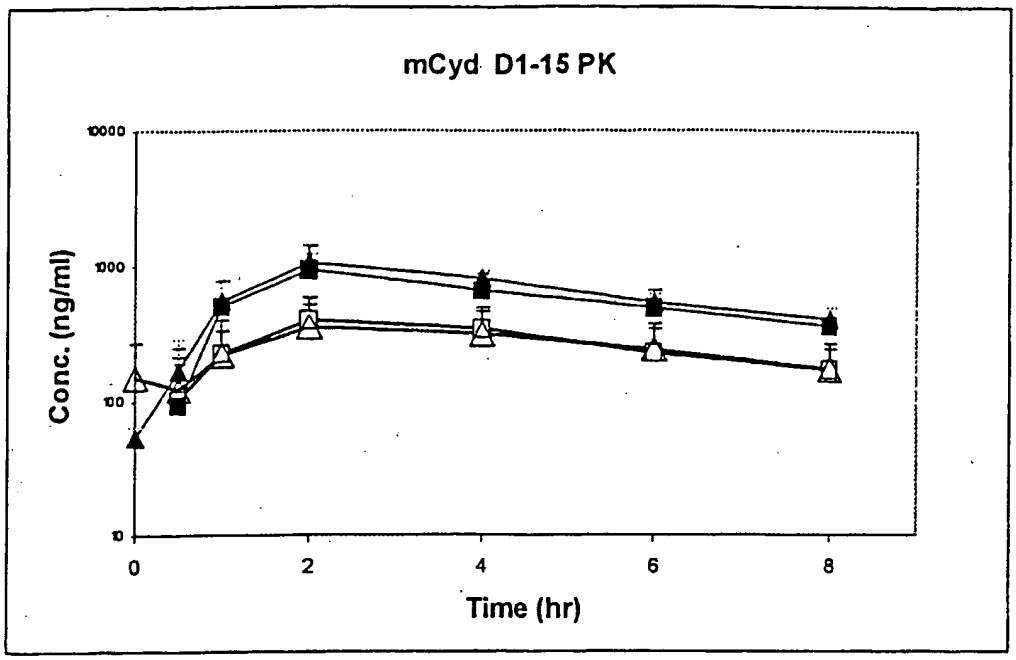


Figure 21

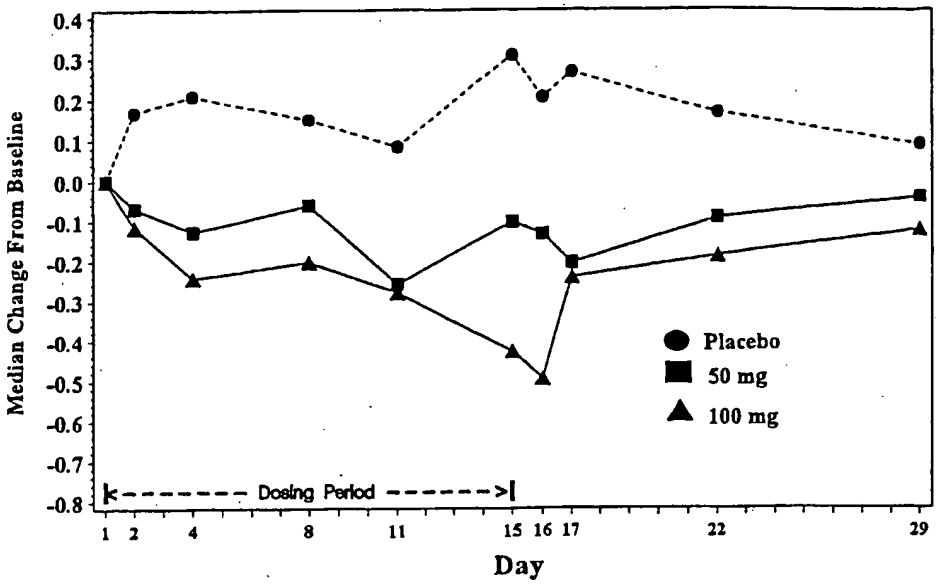
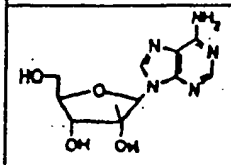
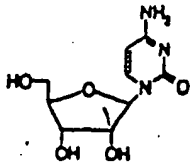
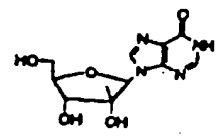
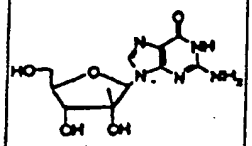
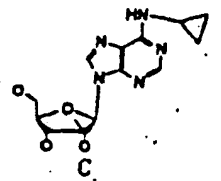
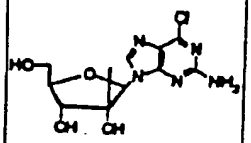
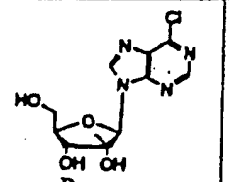
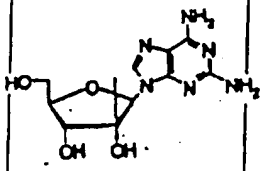
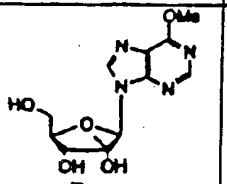
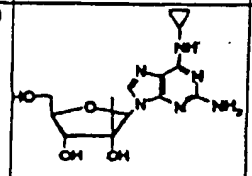
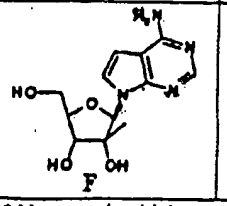

Median Change From Baseline
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
Placebo
50 mg
100 mg
Dosing Period
1 2 4 8 11 15 16 17 22 29
Day

Figure 22

Compound	EC50 (μM)		CC50 (μM)		Compound	EC50 (μM)		CC50 (μM)	
	4.11.03	other	4.11.03	other		4.11.03	other	4.11.03	other
 A	0.5		7.4		 mCyd	1.5	0.9 0.7	50	49 42
 2'-Me-Inosine B	56	45	>250	>250	 G	3.4	1.6	110	71
 C	38.6	27 30	>250	>250	 H		0.6		87
 D	0.5	<0.5 0.5	>62.5*	77 >62.5*	 I	3.7	2.9	>62.5*	>62.5*
 E	9.8	6.7 7.5	>250	>250	 J	73		>250	
 F		0.9 0.8		225 >250					

* Not tested at higher concentrations